

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Access DB# 127208  
(47)

Requester's Full Name: JIM (JENNY) PHAN Examiner#: 79910 Date: 07/14/04  
 Art Unit: 2144 Phone Number: 305-4665 Serial Number: 09/817,630  
 Mail Box and Bldg/Room Location: 2A-32 (CPK2) Results Format Preferred (circle): Paper Disk E-mail

**If more than one search is submitted, please prioritize searches in order of need.**

\*\*\*\*\*  
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: APPARATUS & METHOD FOR MANAGING PERSISTENT NETWORK CONNECTIONS  
 Inventors (please provide full names): MICHAEL T. FRANTZEL; DAVID E. BALLMAN; WILLIAM R. DANIELSON

Earliest Priority Filing Date: 03/26/2001

*\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

A method for managing a network connection through a firewall wherein the firewall automatically determines if the network connection is active by generating a probe or message for the client to response. If the response of error message indicates that the network connection is not active, the firewall deletes the connection state stored in the connection table or database. If the response of receipt acknowledgement is received at the firewall indicating that the network connection is active, the firewall reset the idle time counter so that the network connection is kept alive. state table

**Keywords:**

telnet connection/session	active/inactive/idle/alive connection/session	connection/session state/status/mode
stateful firewall	connection/session table	deleting/terminating/removing
connection/session	probe/message/response	error message/acknowledgement

See attached Patent Application Publication for details!

**STAFF USE ONLY**

Searcher: C. Wong  
 Searcher Phone: 305 29728  
 Searcher Location: 4B33  
 Date Searcher Picked Up: 7-16-04  
 Date Completed: 7-19-04  
 Searcher Prep & Review Time: \_\_\_\_\_  
 Clerical Prep Time: \_\_\_\_\_  
 Online Time: \_\_\_\_\_

**Type of search**

NA Sequence (#) \_\_\_\_\_  
 AA Sequence (#) \_\_\_\_\_  
 Structure (#) \_\_\_\_\_  
 Bibliographic ☒ \_\_\_\_\_  
 Litigation \_\_\_\_\_  
 Full Text \_\_\_\_\_  
 Patent Family \_\_\_\_\_  
 Other \_\_\_\_\_

**Vendors and cost where applicable**

STN \_\_\_\_\_  
 Dialog \_\_\_\_\_  
 Questel/Orbit \_\_\_\_\_  
 Dr. Link \_\_\_\_\_  
 Lexis/Nexis \_\_\_\_\_  
 Sequence System \_\_\_\_\_  
 WWW/Internet \_\_\_\_\_  
 Other (specify) \_\_\_\_\_



# STIC Search Report

## EIC 2100

STIC Database Tracking Number: 127218

**TO: Tam (Jenny) T. Phan**

**Location:**

**Art Unit : 2144**

**Monday, July 19, 2004**

**Case Serial Number: 09/817630**

**From: Carol Wong**

**Location: EIC 2100**

**PK2-4B33**

**Phone: 305-9729**

**carol.wong@uspto.gov**

### Search Notes

Dear Examiner Phan,

Attached are the search results (from commercial databases) for your case.

Color tags mark the patents/articles which appear to be most relevant to the case. Pls review all documents, since untagged items might also be of interest. If you wish to order the complete text of any document, pls submit request(s) directly to the EIC2100 Reference Staff located in PK2-4B40.

Pls call if you have any questions or suggestions for additional terminology, or a different approach to searching the case. Finally, pls complete the attached Search Results Feedback Form, as the EIC/STIC is continually soliciting examiners' opinion of the search service.

Thanks,  
Carol



File 696:DIALOG Telecom. Newsletters 1995-2004/Jul 16  
(c) 2004 The Dialog Corp.  
File 15:ABI/Inform(R) 1971-2004/Jul 15  
(c) 2004 ProQuest Info&Learning  
File 98:General Sci Abs/Full-Text 1984-2004/Jun  
(c) 2004 The HW Wilson Co.  
File 141:Readers Guide 1983-2004/Jun  
(c) 2004 The HW Wilson Co  
File 484:Periodical Abs Plustext 1986-2004/Jun W4  
(c) 2004 ProQuest  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
File 613:PR Newswire 1999-2004/Jul 16  
(c) 2004 PR Newswire Association Inc  
File 635:Business Dateline(R) 1985-2004/Jul 15  
(c) 2004 ProQuest Info&Learning  
File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 610:Business Wire 1999-2004/Jul 16  
(c) 2004 Business Wire.  
File 369:New Scientist 1994-2004/Jul W1  
(c) 2004 Reed Business Information Ltd.  
File 370:Science 1996-1999/Jul W3  
(c) 1999 AAAS  
File 20:Dialog Global Reporter 1997-2004/Jul 16  
(c) 2004 The Dialog Corp.  
File 624:McGraw-Hill Publications 1985-2004/Jul 15  
(c) 2004 McGraw-Hill Co. Inc  
File 634:San Jose Mercury Jun 1985-2004/Jul 15  
(c) 2004 San Jose Mercury News  
File 647:CMP Computer Fulltext 1988-2004/Jul W1  
(c) 2004 CMP Media, LLC  
File 674:Computer News Fulltext 1989-2004/Jun W4  
(c) 2004 IDG Communications

Set	Items	Description
S1	1908269	MESSAGE OR MESSAGES OR MESSAGED OR MESSAGING OR EMESSAG? OR PROBE?? ? OR PROBING? ? OR PROBEPACKET?
S2	51545	PING?? ? OR PINGING
S3	212389	PACKET? ? OR DATAPACKET? ? OR DATAGRAM? OR DATA()GRAM? ?
S4	2471142	TRANSMISSION? OR TRANSMIT?AL? ? OR REQUEST?
S5	5740549	ACKNOWLEDG? OR ANSWER??? ? OR RESPOND? OR RESPONSE? ? OR F-EEDBACK? OR FEED()BACK? ? OR REPLY? OR REPLIE? ? OR ACK? ?
S6	7131	STATELESS OR STATE()LESS
S7	75055	NONRESPONSIVE? OR NONRESPOND? OR UNRESPONSIVE? OR UNRESPOND? OR UNANSWER? OR UNACKNOWLEDG? OR RESPONSELESS OR ANSWERLESS
S8	226201	(NO OR 'NOT')(1W)S5
S9	5877	(UN OR NON)()S5
S10	1342280	ERROR OR INACTIV? OR IDLE OR DEAD
S11	11097	S10(5N)S5
S12	5093591	CONNECTION? OR SESSION? OR CONNECTIV? OR LINK??? ? OR INTERCONNECT? OR INTERLINK?
S13	2373068	PATH? ? OR PATHWAY? OR CHANNEL? ?
S14	113690	DISCONNECT? OR UNCONNECT?
S15	127234	S12:S13(3N)(DELET? OR TERMINAT? OR REMOV??? ? OR DESTROY? - OR ABORT? OR END OR ENDS OR ENDED OR ENDING OR DISCONTINU? OR ELIMINAT?)
S16	56844	S12:S13(3N)(CANCEL??? ? OR CANCEL? OR BREAK??? ? OR CURTAIL? OR DISRUPT? OR RELEAS? OR PURG??? ? OR ERAS??? ? OR DISEN-GAG?)

S17 21430 S12:S13(3N) (DISASSOCIAT? OR CUT OR CUTS OR CUTTING OR INAC-  
TIVAT? OR DEACTIVAT? OR NULLIF? OR UNACTIVAT?)  
S18 101700 FIREWALL? OR FIRE()WALL? ?  
S19 2370304 TABLE OR TABLES OR DATABASE? OR DATASET? OR DATABANK? OR D-  
ATAFILE? OR DB OR DATA() (BASE? ? OR SET? ? OR BANK? ? OR FILE?  
?)  
S20 993 (S6:S9 OR S11) (S)S14:S17  
S21 12592 S1:S4(5N) (S6:S9 OR S11)  
S22 75 S20(S)S21  
S23 9 S20(S)S18  
S24 2407 S14:S17(5N) (S19 OR FILE OR FILES)  
S25 6 S20(S)S24  
S26 87 S22:S23 OR S25  
S27 20 S26/2002:2004  
S28 67 S26 NOT S27  
S29 58 RD (unique items)

29/3,K/5 (Item 5 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01353145 00-04132

#### **Adaptive recovery for mobile environments**

Neves, Nuno; Fuchs, W Kent  
Communications of the ACM v40n1 PP: 68-74 Jan 1997  
ISSN: 0001-0782 JRNL CODE: ACM  
WORD COUNT: 4553

...TEXT: by logging at the sender all messages that might become in-transit. These are the **messages** that have **not** been **acknowledged** by the receivers at checkpoint time. The sender process also logs the send and receive...

... P3 also resets the timer for the next checkpoint. Message m2 is an in-transit **message** that has **not** been **acknowledged** when process P2 saves its CN checkpoint. This message is logged in the checkpoint of...1 gives two examples of possible assignments. The minimal quality of service corresponds to a **disconnected** mobile host. In this case, maxSoft is set to infinity, which means that only soft...

29/3,K/8 (Item 8 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

00710214 93-59435

#### **Client/server chaos yields valuable lessons**

Nickerson, Jeffrey  
Network World v10n21 PP: 41, 44 May 24, 1993  
ISSN: 0887-7661 JRNL CODE: NWW  
WORD COUNT: 1458

...TEXT: virtually all machines are missing packets and rerequesting them.

Protocol designers know that when a **packet** is **not** **acknowledged** or a **packet** is out of seunce, the rerequests must eventually time-out, otherwise, **disconnecting** a machine frm the network for most of the day and then reconnecting it will...

29/3,K/11 (Item 11 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00639730 92-54670

**Z39.50 and the Scholar's Workstation Concept**

Phillips, Gary Lee

Information Technology & Libraries v11n3 PP: 261-270 Sep 1992

ISSN: 0730-9295 JRNL CODE: JLA

WORD COUNT: 3854

...TEXT: request is not required in this example since there are no associated charges for the session .

**Termination** is actually supported through lower layers of the OSI, but the manner in which it occurs is specified by Z39.50 and permits either system to send an immediate abort **request** (requiring **no response** ) as well as permitting a graceful **termination** of the **connection** initiated by the client system.

CONCLUSIONS

The Z39.50 or LSP standard, though originally designed...

29/3,K/12 (Item 12 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00621997 92-37099

**Client-Server Computing**

Sinha, Alok

Communications of the ACM v35n7 PP: 77-98 Jul 1992

ISSN: 0001-0782 JRNL CODE: ACM

WORD COUNT: 11708

...TEXT: data. Applications sending SPX packets form SPX connections with destination applications, and SPX retransmits any **unacknowledged packets** after appropriate timeout intervals. After a certain number of unacknowledged retransmissions, SPX assumes that destination application is no longer listening and **breaks** the **connection** (15).

Applications communicate with one another, using either an IPX or SPX programming interface. Prior...

29/3,K/23 (Item 1 from file: 613)

DIALOG(R)File 613:PR Newswire

(c) 2004 PR Newswire Association Inc. All rts. reserv.

00273711 20000228HSM035 (USE FORMAT 7 FOR FULLTEXT)

**Radware Announces Robust New Features for Its Web Server Director Product Line**

PR Newswire

Monday, February 28, 2000 07:00 EST

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 1,062

...TCP session under

the impression that the session is from a real client; however, since no final **acknowledgment** is received from the client indicating that the session is fully open, server resources are...

...taking the necessary steps to remedy the situation. First, the WSD can protect its own **session table** by quickly **removing** the invalid **sessions**.

Second, if a server's operating system is not capable of protecting itself, the WSD can quickly **terminate** the half-open **sessions** on the server, freeing server resources.

About RADWARE

RADWARE develops, manufacturers and markets products that...  
? t29/3,k/46

29/3,K/46 (Item 2 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01209221 CMP ACCESSION NUMBER: NWC20000207S0015  
**pcAnywhere Proves Next Best Thing - Can't be there? Symantec pcAnywhere's management console and SNMP support make it the best remote control package for large sites.**

Sean Doherty  
NETWORK COMPUTING, 2000, n 1102, PG73  
PUBLICATION DATE: 000207  
JOURNAL CODE: NWC LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Reviews - Enterprise Remote Control  
WORD COUNT: 3266

... not respond after a set time, the host may grant the permission by default or **disconnect** the guest.

**File** transfer is new to Proxy. The simple interface provides options for get, put, delete, create...  
? t29/3,k/54

29/3,K/54 (Item 5 from file: 674)  
DIALOG(R)File 674:Computer News Fulltext  
(c) 2004 IDG Communications. All rts. reserv.

056078

**Invisible protection**

**Computerworld Telecom Journal**

**Security for carrier is in the eye of the beholder. But new forms of encryption and biometric technology are cutting to the core, providing barriers that prevent fraud and unauthorized access**

Byline: Pat Blake

Journal: Computerworld Page Number: T6

Publication Date: November 01, 1996

Word Count: 2619 Line Count: 240

Text:

... response. If the response is not in tandem with the algorithm or if there is **no response**, service is denied. And since the correct response is a function of the random number...

...executive officer and chairman of IRE. Its suite of products includes a secure modem, two **firewalls**, software to run the system and a smart card, all of which work in unison...

... their midrange computers and mainframes." Too many companies throw all their resources into putting up **firewalls** on their new IP networks and neglect or forget to retrofit older mainframe systems, Restovich...called layer two tunneling is that we tunnel at two layers so that we actually **terminate** the **session** at the company's own home gateway," he explained. "Corporations don't want security handled...  
?

File 348:EUROPEAN PATENTS 1978-2004/Jul W01  
 (c) 2004 European Patent Office  
 File 349:PCT FULLTEXT 1979-2002/UB=20040708,UT=20040701  
 (c) 2004 WIPO/Univentio

Set	Items	Description
S1	235092	MESSAGE OR MESSAGES OR MESSAGED OR MESSAGING OR EMESSAG? OR PROBE?? ? OR PROBING? ? OR PROBEPACKET?
S2	8324	PING?? ? OR PINGING
S3	55947	PACKET? ? OR DATAPACKET? ? OR DATAGRAM? OR DATA()GRAM? ?
S4	1695518	TRANSMISSION? OR TRANSMIT?AL? ? OR REQUEST?
S5	483392	ACKNOWLEDG? OR ANSWER??? ? OR RESPOND? OR RESPONSE? ? OR F-EEDBACK? OR FEED()BACK? ? OR REPLY? OR REPLIE? ? OR ACK? ?
S6	1497	STATELESS OR STATE()LESS
S7	6357	NONRESPONSIVE? OR NONRESPOND? OR UNRESPONSIVE? OR UNRESPOND? OR UNANSWER? OR UNACKNOWLEDG? OR RESPONSELESS OR ANSWERLESS
S8	29201	(NO OR 'NOT')(1W)S5
S9	2179	(UN OR NON)()S5
S10	303383	ERROR OR INACTIV? OR IDLE OR DEAD
S11	14303	S10(5N)S5
S12	844263	CONNECTION? OR SESSION? OR CONNECTIV? OR LINK??? ? OR INTERCONNECT? OR INTERLINK?
S13	546437	PATH? ? OR PATHWAY? OR CHANNEL? ?
S14	68550	DISCONNECT? OR UNCONNECT?
S15	122628	S12:S13(3N)(DELET? OR TERMINAT? OR REMOV??? ? OR DESTROY? - OR ABORT? OR END OR ENDS OR ENDED OR ENDING OR DISCONTINU? OR ELIMINAT?)
S16	31690	S12:S13(3N)(CANCEL??? ? OR CANCEL? OR BREAK??? ? OR CURTAIL? OR DISRUPT? OR RELEAS? OR PURG??? ? OR ERAS??? ? OR DISENGAG?)
S17	13158	S12:S13(3N)(DISASSOCIAT? OR CUT OR CUTS OR CUTTING OR INACTIVAT? OR DEACTIVAT? OR NULLIF? OR UNACTIVAT?)
S18	6757	FIREWALL? OR FIRE()WALL? ?
S19	583941	TABLE OR TABLES OR DATABASE? OR DATASET? OR DATABANK? OR DATAFILE? OR DB OR DATA()(BASE? ? OR SET? ? OR BANK? ? OR FILE? ?)
S20	930	(S6:S9 OR S11)(25N)S14:S17
S21	6671	S1:S4(5N)(S6:S9 OR S11)
S22	220	S20(25N)S21
S23	2	S20(25N)S18
S24	33	S22/TI,AB,CM
S25	15876	IC='G06F-015'
S26	22	S22 AND S25
S27	2370	S14:S17(5N)(S19 OR FILE OR FILES)
S28	21	S20(25N)S27
S29	513	(S6:S9 OR S11)(10N)S14:S17
S30	109	S29(25N)S21
S31	18	S30/TI,AB,CM
S32	57	S23 OR S26 OR S28 OR S31
S33	57	IDPAT (sorted in duplicate/non-duplicate order)
S34	56	IDPAT (primary/non-duplicate records only)
S35	26192	IC='H04L-012'
S36	473	(S7:S9 OR S11)(10N)S14:S17
S37	103	S36(25N)S21
S38	23	S37 AND S35
S39	14	S38 NOT S33
S40	14	IDPAT (sorted in duplicate/non-duplicate order)
S41	14	IDPAT (primary/non-duplicate records only)

?t34/5,k/1,3-7,9-11,18,22,30

34/5,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01720823

**Integrated web browsing service system and method thereof**

**System zum integrierten Webbrowsen und Verfahren dazu**

**Systeme pour un service de navigation web integree et methode associee**

PATENT ASSIGNEE:

LG ELECTRONICS INC., (1914271), 20, Yoido-Dong, Yongdungpo-Ku, Seoul,  
(KR), (Applicant designated States: all)

INVENTOR:

Shin, Sang-Cheol, Toigye-Jugong Apt. 366-701, 875 Geumjeong-Dong, Gunpo,  
Gyeonggi-Do, (KR)

LEGAL REPRESENTATIVE:

von Hellfeld, Axel, Dr. Dipl.-Phys. (53042), Wuesthoff & Wuesthoff  
Patent- und Rechtsanwälte Schweigerstrasse 2, 81541 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1411706 A1 040421 (Basic)

APPLICATION (CC, No, Date): EP 2003011102 030521;

PRIORITY (CC, No, Date): KR 202063934 021018

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS: H04L-029/08; G06F-017/30; H04L-012/28;  
H04Q-007/32

ABSTRACT EP 1411706 A1

A system and method for providing an integrated web browsing service integrate a general web browsing function with a mobile web browsing function. The integrated web browsing service system includes a terminal equipment (300) which performs Internet web browsing and mobile communication web browsing, and a mobile terminal (400) which performs web browsing by itself or supports web browsing of the terminal equipment by connecting an Internet server and a mobile communication web server. Through this integration, various web content and web services are provided to the user. Also, additional equipment or interface installation for a mobile web service is not required for the terminal equipment, and it is possible to recover or otherwise compensate for display limitations of a mobile terminal.

ABSTRACT WORD COUNT: 123

NOTE:

Figure number on first page: 3

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 040421 A1 Published application with search report

Examination: 040421 A1 Date of request for examination: 20030521

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200417	902
SPEC A	(English)	200417	5484
Total word count - document A			6386
Total word count - document B			0
Total word count - documents A + B			6386

...SPECIFICATION start signaling path. Primitives related to the integrated web service end signaling are defined in **Table 4**.

Figure 12 illustrates the **connection release (end)** signaling. When the user ends the IW browser 320 or the other **connection release** reasons occur, the TE 300 **disconnects** the connection with the MT 400 by performing the **connection end** signaling. If there is **no reply** from the MT for a certain time ((DELTA)T2), the TE judges whether the connection with the MT has ended. The process of the **connection end** signaling will be described.

When the "connection end command" is transmitted from the user to...

34/5,K/3 (Item 3 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01534710

INTERNET COMMUNICATION SYSTEM  
INTERNET-KOMMUNIKATIONSSYSTEM  
SYSTEME DE COMMUNICATION INTERNET  
PATENT ASSIGNEE:

MITSUBISHI DENKI KABUSHIKI KAISHA, (208589), 2-3, Marunouchi 2-chome,  
Chiyoda-ku, Tokyo 100-8310, (JP), (Applicant designated States: all)

INVENTOR:

NAITO, Akihiko, c/o Mitsubishi Denki K.K. 2-3, Marunouchi 2-chome,  
Chiyoda-ku, Tokyo 100-8310, (JP)  
MIYAUCHI, Nobuhito, c/o Mitsubishi Denki K.K. 2-3, Marunouchi 2-chome,  
Chiyoda-ku, Tokyo 100-8310, (JP)  
KIMURA, Shun, c/o Mitsubishi Denki K.K. 2-3, Marunouchi 2-chome,  
Chiyoda-ku, Tokyo 100-8310, (JP)  
MORIOKA, Hiroki, c/o Mitsubishi Denki K.K. 2-3, Marunouchi 2-chome,  
Chiyoda-ku, Tokyo 100-8310, (JP)

LEGAL REPRESENTATIVE:

Pfenning, Meinig & Partner GbR (100967), Mozartstrasse 17, 80336 Munchen,  
(DE)

PATENT (CC, No, Kind, Date): EP 1392027 A1 040225 (Basic)  
WO 2002098085 021205

APPLICATION (CC, No, Date): EP 2001274268 011128; WO 2001JP10373 011128

PRIORITY (CC, No, Date): WO 2001JP4390 010525

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04L-012/66; H04L-012/56; H04M-011/00

ABSTRACT EP 1392027 A1

An internet communication system, which is provided with  
sessionmanaging servers 210 and 220. In the system, each session managing  
server manages communication adapters 110 and 120 and call relay servers  
310 and 320. For that reason, the processing load of each session  
managing server is allowed to be equalized. As a result, the operational  
efficiency of the system may be enhanced, and quality of services offered  
to the user of the system may be improved.

ABSTRACT WORD COUNT: 76

NOTE:

Figure number on first page: 0002

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030129 A1 International application. (Art. 158(1))  
Application: 030129 A1 International application entering European  
phase  
Application: 040225 A1 Published application with search report  
Examination: 040225 A1 Date of request for examination: 20031124

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200409	8220
SPEC A	(English)	200409	37418
Total word count - document A			45638
Total word count - document B			0
Total word count - documents A + B			45638

...CLAIMS issues a connection request to the session managing server by  
using TCP (Transmission Control Protocol), **cancels** the **connection**  
**request** upon reception of **no response** from the session managing  
server to the connection request after a preset fixed timeout value  
...

...issues a connection request to the communication relay server by using  
TCP (Transmission Control Protocol), **cancels** the **connection**

request upon reception of no response from the communication relay server to the connection request after a preset fixed timeout value...

34/5,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01297765

Communication path control method and device for data networks using high-speed buses

Verfahren und Vorrichtung zur Steuerung des Kommunikationsweges bei Datennetzen mit Hochgeschwindigkeitsbussen

Procede et dispositif pour le controle d'une voie de communication dans un reseau de communications avec des bus a haute vitesse

PATENT ASSIGNEE:

NEC CORPORATION, (236690), 7-1, Shiba 5-chome, Minato-ku, Tokyo, (JP),  
(Applicant designated States: all)

INVENTOR:

Matsuda, Junichi, NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

VOSSIUS & PARTNER (100314), Siebertstrasse 4, 81675 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1113625 A2 010704 (Basic)

EP 1113625 A3 011024

APPLICATION (CC, No, Date): EP 2000128411 001227;

PRIORITY (CC, No, Date): JP 99377300 991228

DESIGNATED STATES: DE; FR; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04L-012/46; H04L-012/403

ABSTRACT EP 1113625 A2

A communication path control system is provided for use in a data network configured by a number of buses (1a-1d) each of which installs at least one node as an isochronous resource manager (IRM) based on the IEEE 1394 standard. Adjacent buses are interconnected together by means of a bridge (2a-2c) consisting of at least two portals (7a, 7b; 8a, 8b; 9a, 9b), each of which has a connection counter for counting a number of receiving nodes for receiving stream packets being transmitted thereto from a transmitting node by itself. For establishment of a communication path, a device controller (5d) specifies all portals that lie in the communication path to request each of them to increment a value of the connection counter by 1'. For disconnection of the communication path, the device controller requests each of the specified portals to decrement a value of the connection counter by 1'. More specifically, each portal stores a communication path management table containing the connection counter (FA4), while the device controller stores a communication path management table that describes resources (e.g., bandwidths, channels) in connection with a connection counter (FE6) with respect to each of buses (FE3) corresponding to the communication path. At occurrence of bus reset on a specific bus, its corresponding portal proceeds to initialization of the specific bus, then, the device controller proceeds to re-securement or release of the resources.

ABSTRACT WORD COUNT: 231

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010704 A2 Published application without search report  
Change: 011024 A2 International Patent Classification changed:  
20010906

Search Report: 011024 A3 Separate publication of the search report

Examination: 011114 A2 Date of request for examination: 20010918

Examination: 020619 A2 Date of dispatch of the first examination  
report: 20020502

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200127	1959
SPEC A	(English)	200127	20583
Total word count - document A			22542
Total word count - document B			0
Total word count - documents A + B			22542

...CLAIMS asynchronous packets;

making determination that a specific bus connected with a specific portal which do **not respond** to the prescribed asynchronous **packets** being periodically transmitted is **disconnected** from the data network; and  
disconnecting the communication path using the specific portal connected with...

34/5,K/5 (Item 5 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01097083

DATA COMMUNICATION SYSTEM ON PUBLIC MOBILE RADIO NETWORKS

DATAKOMMUNIKATIONSSYSTEME AUF OFFENTLICHEN MOBILFUNKNETZWERKEN

SYSTEME DE COMMUNICATION DE DONNEES SUR LES RESEAUX RADIOMOBILES PUBLICS

PATENT ASSIGNEE:

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(Proprietor designated states: all)

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(Proprietor designated states: all)

INVENTOR:

CORSI, Paolo, Via Lippi e Macia, 49, I-50127 Firenze, (IT)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1064801 A1 010103 (Basic)

EP 1064801 B1 030423

WO 99052303 991014

APPLICATION (CC, No, Date): EP 99911534 990326; WO 99BE42 990326

PRIORITY (CC, No, Date): IT 98FI72 980326

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04Q-007/22

CITED PATENTS (EP B): EP 565229 A; WO 95/03679 A

CITED PATENTS (WO A): EP 565229 A ; WO 9503679 A

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010103 A1 Published application with search report

Application: 991208 A1 International application. (Art. 158(1))

Oppn None: 040414 B1 No opposition filed: 20040126

Examination: 011010 A1 Date of dispatch of the first examination  
report: 20010822

Examination: 010103 A1 Date of request for examination: 20001020

Grant: 030423 B1 Granted patent

Application: 991208 A1 International application entering European  
phase

LANGUAGE (Publication,Procedural,Application): French; French; French

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200317	3310
CLAIMS B	(German)	200317	3091
CLAIMS B	(French)	200317	3426
SPEC B	(French)	200317	13934

Total word count - document A 0

Total word count - document B 23761

Total word count - documents A + B 23761

...CLAIMS with the enable/disable password, received by the IM-R in  
presence of SVC;

d) **disconnection** with reply or **no reply**, in the case of connection

**request** with the enable/disable password for the disabling command received by the

34/5,K/6 (Item 6 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01005296

**MOBILE COMMUNICATION METHOD AND MOBILE COMMUNICATION SYSTEM**  
**MOBILES KOMMUNIKATIONSVERFAHREN UND ANORDNUNG**  
**PROCEDE ET SYSTEME DE COMMUNICATION MOBILE**

PATENT ASSIGNEE:

NTT MOBILE COMMUNICATIONS NETWORK INC., (1560153), 10-1, Toranomom  
2-chome, Minato-ku, Tokyo 105-8436, (JP), (Applicant designated States:  
all)

INVENTOR:

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HAMAJIMA, Takuya, 606, Marine Heim 1283-3, Tauraminato-cho, Yokosuka-shi  
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HATA, Masafumi, 3-301 Daikan Plaza City 1-8, Yasuura-cho, Yokosuka-shi  
Kanagawa 238-0012, (JP)  
ISHIKAWA, Nobutaka 202, Bell Light Nokendai, 18-11, Nokendai-tori  
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YASUDA, Yoshiyuki, 6-13-31, Okamura Isogo-ku Yokohama-shi, Kanagawa  
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YUNOKI, Kazufumi, 18-4-304, Nobi 4-chome Yokosuka-shi, Kanagawa 239-0841,  
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UCHIYAMA, Nobuhide, 20-1-201, Yoshimien 9-chome, Sacki-ku, Hiroshima-shi,  
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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 978958 A1 000209 (Basic)  
WO 9848528 981029

APPLICATION (CC, No, Date): EP 98917680 980424; WO 98JP1906 980424

PRIORITY (CC, No, Date): JP 97123782 970424

DESIGNATED STATES: DE; FR; GB; IT; SE

INTERNATIONAL PATENT CLASS: H04B-007/26; H04Q-007/24

CITED PATENTS (WO A): XE X X Y Y ; Y Y Y A YE Y

ABSTRACT EP 978958 A1

When a network pages the temporary user mobile identifier of a mobile station, the mobile station sends a response to the network. Next, the network checks the authenticity of the user using a ciphering key, corresponding to the temporary user mobile identifier and a random number. If the temporary user mobile identifier is authenticated, a normal incoming call acceptance procedure is executed. If the mobile station is authenticated although the temporary user mobile identifier is

wrong, the network reassigns a new temporary user mobile identifier to the mobile station and stops the current communication. In communication, the network and the mobile station mutually notify encipherment-onset time and negotiate about encipherment manner with each other. In addition, diversity handover is commenced upon a call attempt. Furthermore, if a branch replacement is necessary, the current branch is replaced by new branches capable of executing the diversity handover. Additionally, when a new call occurs to or from the mobile station capable of treating a plurality of calls simultaneously, the mobile station uses the same branch structure and the same communication frequency band for all of calls. Additionally, when a new call occurs to or from the mobile station capable of treating a plurality of calls simultaneously, a branch structure and a communication frequency band, which can continue all of the calls, are selected and used. Therefore, the mobile communications system is suitable for transmission of various sorts of data in accordance with the development of multimedia.

ABSTRACT WORD COUNT: 244

NOTE:

Figure number on first page: 226

LEGAL STATUS (Type, Pub Date, Kind, Text):

Search Report: 020206 A1 Date of drawing up and dispatch of supplementary:search report 20011220

Application: 20000209 A1 Published application with search report

Examination: 031126 A1 Date of dispatch of the first examination report: 20031008

Application: 990331 A1 International application (Art. 158(1))

Examination: 20000209 A1 Date of request for examination: 19990908

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200006	7277
SPEC A	(English)	200006	100683
Total word count - document A			107960
Total word count - document B			0
Total word count - documents A + B			107960

...SPECIFICATION user profile.

Figure 387 is a table representing the detail of a TERMINAL-STATUS-MAKE- **IDLE response** confirmation that is a **response** to the TERMINAL-STATUS-MAKE- **IDLE** request indication.

Figure 388 is a **table** representing the detail of another TA **RELEASE** response confirmation is used for confirmation to the TA RELEASE request indication.

Figure 389 is...radio channel(s).

Figure 457 is a table representing the detail of a BEARER RELEASE **response** confirmation sent from the TACFv to TACFa to confirm the BEARER RELEASE request indication.

Figure 458 is a **table** representing the detail of a HANDOVER BRANCH **DELETION** request indication sent from the TACF to TACAF.

Figure 459 is a **table** representing the detail of a HANDOVER BRANCH **DELETION** response confirmation sent from the TACAF to TACF to confirm the HANDOVER BRANCH **DELETION** request...

34/5,K/7 (Item 7 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00888715

Dynamic assignment of signalling virtual channels for wireless ATM systems  
Dynamische Zuteilung von virtuellen Kontrollkanalen für drahtlose ATM  
Systeme

Allocation dynamique des canaux virtuels de signalisation pour systeme ATM  
sans fil

PATENT ASSIGNEE:

ASCOM TECH AG, (1030300), Berner Technopark, Morgenstrasse 129, 3018 Bern  
, (CH), (applicant designated states: AT;BE;CH;DE;ES;FR;GB;IE;IT;LI)

INVENTOR:

Kuhnel, Thomas, Munstergasse 12, 3011 Bern, (CH)

Wu, Yung-Shain, Mattenweg 10A, 2557 Studen, (CH)

LEGAL REPRESENTATIVE:

Roshardt, Werner Alfred, Dipl.-Phys. et al (69441), Keller & Partner

Patentanwalte AG Zeughausgasse 5 Postfach, 3000 Bern 7, (CH)

PATENT (CC, No, Kind, Date): EP 813346 A1 971217 (Basic)

APPLICATION (CC, No, Date): EP 97103854 970307;

PRIORITY (CC, No, Date): US 632101 960415

DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; IE; IT; LI

INTERNATIONAL PATENT CLASS: H04Q-007/24; H04Q-011/04;

ABSTRACT EP 813346 A1

A wireless communication system for asynchronous transfer mode includes the dynamic assignment of signalling virtual channels and/or virtual paths for communications between a mobile terminal and a controller or control function. An access point (AP) associated with the wireless mobile terminal (MT) is transparent for transmitted data and control information. The dynamic assignment of the signalling virtual channel (SVC) takes place in the event of new registration to the system and handover from one access point to another. The protocol uses finite state machines and timers at the mobile terminal and at the control function. For new registrations, an assignment channel is used on a broadcast uplink from the mobile terminal to the control function to request the SVC, while the response from the control function is transmitted on the downlink broadcast channel. The response contains the unique signalling virtual channel identifier (SVCID) to be used by the mobile terminal and the control function for further signalling between them. A loss of carrier connection is detected by exchanging alive **messages**. If there is **no response** to the alive **messages**, pending **connections** are **released** and assigned SVCs are freed. Handover from one access point to another is initiated by the mobile terminal. A new SVCID is assigned by the control function as part of the messages exchanged during the handover protocol.

ABSTRACT WORD COUNT: 221

LEGAL STATUS (Type, Pub Date, Kind, Text):

Withdrawal: 030416 A1 Date application deemed withdrawn: 20021002

Application: 971217 A1 Published application (A1with Search Report  
;A2without Search Report)

Examination: 980722 A1 Date of filing of request for examination:  
980522

Change: 980909 A1 Representative (change)

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9712W2	1913
SPEC A	(English)	9712W2	5252
Total word count - document A			7165
Total word count - document B			0
Total word count - documents A + B			7165

...ABSTRACT for further signalling between them. A loss of carrier connection is detected by exchanging alive **messages**. If there is **no response** to the alive **messages**, pending **connections** are **released** and assigned SVCs are freed. Handover from one access point to another is initiated by...

34/5,K/9 (Item 9 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00548977

Method for a global management of electrical power in an electric network for a building and system for carrying out this method

Verfahren zur globalen Steuerung der elektrischen Leistung in einem elektrischen Netzwerk eines Gebäudes und System zur Ausführung dieses Verfahrens

**Procede de gestion globale de la puissance electrique dans un reseau au sein d'un local et systeme pour la mise en oeuvre du procede**

**PATENT ASSIGNEE:**

EURO CP s.a.r.l., (1443475), 4, allée Charles V, 94300 Vincennes, (FR),  
(applicant designated states: CH;DE;ES;GB;IT;LI;NL)

**INVENTOR:**

Gilbert, Jerome, 40 rue Chaptal, F-92300 Levallois Perret, (FR)

**LEGAL REPRESENTATIVE:**

Pontet, Bernard (56032), Pontet & Allano s.a.r.l. 25, rue Jean-Rostand  
Parc Club Orsay Universite, 91893 Orsay Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 538078 A1 930421 (Basic)  
EP 538078 B1 980527

APPLICATION (CC, No, Date): EP 92401921 920703;

PRIORITY (CC, No, Date): FR 9112604 911014

DESIGNATED STATES: CH; DE; ES; GB; IT; LI; NL

INTERNATIONAL PATENT CLASS: H02J-003/14;

CITED PATENTS (EP A): EP 372961 A; GB 2071438 A; FR 2349989 A; FR 2404326 A  
; EP 265342 A

**CITED REFERENCES (EP A):**

IEEE INTERNATIONAL CONFERENCE ON CONSUMER ELECTRONICS 6-8 JUIN 1990  
, ROSEMOUNT , ILLINOIS , US pages 238 - 239; J. KELLY ET AL.: 'A  
Residential Energy Management Test Using CEBus';

**ABSTRACT EP 538078 A1**

Procede de gestion de la puissance electrique dans un reseau (R) auquel sont relies, d'une part, des appareils pouvant communiquer entre eux de maniere bidirectionnelle, chaque appareil comprenant un sous-ensemble de puissance et un sous-ensemble de commande , et d'autre part un appareils, dit gestionnaire de puissance, agence pour gerer des fonctions de delestage et de relestage qui visent uniquement lesdits sous-ensembles de puissance de chaque appareil, et chaque appareil delestable etant a priori deleste.

Toute demande d'une puissance electrique significative par un appareil deleste conduit a une transaction entre ledit appareil et le gestionnaire de puissance au cours de laquelle ledit appareil deleste demandeur fournit audit gestionnaire de puissance des informations de nature quantitative et qualitative liees a la puissance demandee et a l'issue de laquelle ledit gestionnaire de puissance autorise ou non le relestage du sous-ensemble de puissance dudit appareil demandeur.

Utilisation pour la realisation de reseaux domotiques dotes d'une gestion dynamique de la puissance electrique. (voir l image dans le document original)

ABSTRACT WORD COUNT: 167

**LEGAL STATUS (Type, Pub Date, Kind, Text):**

Lapse:	020619 B1	Date of lapse of European Patent in a contracting state (Country, date): ES 19980527, IT 19980527,
Application:	930421 A1	Published application (Alwith Search Report ;A2without Search Report)
Lapse:	030212 B1	Date of lapse of European Patent in a contracting state (Country, date): ES 19980527, IT 19980527, NL 19980527,
Examination:	930908 A1	Date of filing of request for examination: 930708
Examination:	940209 A1	Date of despatch of first examination report: 931227
*Assignee:	980325 A1	Applicant (transfer of rights) (change): EURO CP s.a.r.l. (1443475) 4, allée Charles V 94300 Vincennes (FR) (applicant designated states: CH;DE;ES;GB;IT;LI;NL)
*Assignee:	980325 A1	Previous applicant in case of transfer of rights (change): EURO CP s.a.r.l. (1443470) 1, Allée des Rochers 94045 Creteil Cedex (FR) (applicant designated states: CH;DE;ES;GB;IT;LI;NL)
Grant:	980527 B1	Granted patent
Oppn None:	990526 B1	No opposition filed

Lapse: 991020 B1 Date of lapse of European Patent in a  
contracting state (Country, date): IT  
19980527,

LANGUAGE (Publication,Procedural,Application): French; French; French  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9822	961
CLAIMS B	(German)	9822	899
CLAIMS B	(French)	9822	977
SPEC B	(French)	9822	3360
Total word count - document A			0
Total word count - document B			6197
Total word count - documents A + B			6197

...CLAIMS within the said network (R).

4. Method according to claim 3, characterised in that if **no response** to a presence declaration **request** is received by a requesting **disconnectable** appliance (301-307) or when the said **disconnectable** appliance (301-307) obtains **no response** to a reconnection **request** on expiry of a predetermined delay or on completion of a predetermined number of requests...

34/5,K/10 (Item 10 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00548673

**Method to identify a distant functional object in a network and corresponding functional units**

**Verfahren zur Bestimmung eines entfernten, funktionalen Objektes in einem Netzwerk sowie funktionale Einheiten**

**Procede pour designer un objet fonctionnel distant dans un reseau et unites fonctionnelles**

PATENT ASSIGNEE:

EURO CP s.a.r.l., (1443470), 1, Allee des Rochers, F-94045 Creteil Cedex, (FR), (applicant designated states: CH;DE;ES;GB;IT;LI;NL)

INVENTOR:

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LEGAL REPRESENTATIVE:

Pontet, Bernard (56032), Pontet & Allano s.a.r.l. 25, rue Jean-Rostand

Parc Club Orsay Universite, 91893 Orsay Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 524036 A1 930120 (Basic)

EP 524036 B1 970827

APPLICATION (CC, No, Date): EP 92401606 920610;

PRIORITY (CC, No, Date): FR 919012 910717

DESIGNATED STATES: CH; DE; ES; GB; IT; LI; NL

INTERNATIONAL PATENT CLASS: H04L-012/28;

CITED PATENTS (EP A): EP 203668 A; EP 315158 A; WO 8904578 A

CITED REFERENCES (EP A):

COMPUTER COMMUNICATIONS. vol. 13, no. 1, Janvier 1990, GUILDFORD GB pages 27 - 36 A.PATEL ET AL 'INTRODUCTION TO NAMES, ADDRESSES AND ROUTES IN AN OSI ENVIRONMENT';

ABSTRACT EP 524036 A1

A un stade d'un processus d'organisation d'un reseau domotique, un objet fonctionnel (1) attend la designation d'un autre objet fonctionnel (1) distant, du meme reseau (2).

L'objet en attente emet une demande de designation sur le reseau. Les objets fonctionnels (1) concernes par la demande se manifestent de maniere perceptible, par un operateur, notamment en faisant clignoter leurs voyants lumineux (4). L'operateur designe l'un des objets (1) en agissant sur n'importe quelle commande (3) de cet objet. L'objet designe emet un message de reponse, qui est pris en compte par l'objet ayant lance la demande de designation.

Utilisation pour rendre conviviales, simples et spontanees les interventions necessaires de la part de l'operateur pour creer et organiser son reseau domotique. (voir l image dans le document original)

ABSTRACT WORD COUNT: 128

## LEGAL STATUS (Type, Pub Date, Kind, Text):

Lapse: 020619 B1 Date of lapse of European Patent in a contracting state (Country, date): ES 19970827, IT 19970827,

Application: 930120 A1 Published application (A1with Search Report ;A2without Search Report)

Lapse: 030212 B1 Date of lapse of European Patent in a contracting state (Country, date): ES 19970827, IT 19970827, NL 19970827,

Examination: 930908 A1 Date of filing of request for examination: 930708

Change: 940323 A1 Representative (change)

Examination: 960327 A1 Date of despatch of first examination report: 950207

Grant: 970827 B1 Granted patent

\*Assignee: 971001 B1 Proprietor of the patent (transfer of rights): EURO CP s.a.r.l. (1443475) 4, allée Charles V 94300 Vincennes (FR) (applicant designated states: CH;DE;ES;GB;IT;LI;NL)

\*Assignee: 971001 B1 Previous applicant in case of transfer of rights (change): EURO CP s.a.r.l. (1443470) 1, Allée des Rochers 94045 Creteil Cedex (FR) (applicant designated states: CH;DE;ES;GB;IT;LI;NL)

Oppn None: 980819 B1 No opposition filed

Lapse: 991020 B1 Date of lapse of European Patent in a contracting state (Country, date): IT 19970827,

LANGUAGE (Publication,Procedural,Application): French; French; French

## FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9708W4	1004
CLAIMS B	(German)	9708W4	933
CLAIMS B	(French)	9708W4	1059
SPEC B	(French)	9708W4	3198
Total word count - document A			0
Total word count - document B			6194
Total word count - documents A + B			6194

...CLAIMS said higher order process to later recover the such designated functional object, said direct designation **session** being **aborted** if **no answer message** is received by the microcontroller (11) beyond a predetermined time-out duration.

14. Functional unit...

34/5,K/11 (Item 11 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00515132

**Multi-media serial line switching adapter for parallel networks and heterogeneous and homologous computer system**

**Serieller Multimedia Linienwechsler für Parallelnetzwerke und ein heterogenes homologes Rechnersystem**

**Adaptateur de commutation de ligne série multi-media pour reseaux parallels et systeme d'ordinateurs heterogenes et homologues**

## PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (Proprietor designated states: all)

## INVENTOR:

Olnowich, Howard Thomas, 2922 Twilight Drive, Endwell, New York 13760, (US)

## LEGAL REPRESENTATIVE:

Duscher, Reinhard (DE), Dr. et al (94081), IBM Deutschland GmbH, Intellectual Property, Pascalstrasse 100, D-70548 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 505781 A2 920930 (Basic)  
EP 505781 A3 940209

EP 505781 B1 011017

APPLICATION (CC, No, Date): EP 92103748 920305;  
PRIORITY (CC, No, Date): US 677543 910329; US 799602 911127  
DESIGNATED STATES: AT; CH; DE; DK; ES; FR; GB; IT; LI; NL; SE  
INTERNATIONAL PATENT CLASS: G06F-015/16 ; H04L-029/06  
CITED PATENTS (EP A): US 4794589 A; EP 420531 A; EP 422782 A  
CITED PATENTS (EP B): EP 420531 A; EP 422782 A; US 4794589 A  
CITED REFERENCES (EP A):

IBM TECHNICAL DISCLOSURE BULLETIN. vol. 29, no. 3, August 1986, NEW YORK  
US pages 1356 - 1360 'Dynamically reconfigurable integrated switch';

CITED REFERENCES (EP B):

IBM TECHNICAL DISCLOSURE BULLETIN. vol. 29, no. 3, August 1986, NEW YORK  
US pages 1356 - 1360 'Dynamically reconfigurable integrated switch';

ABSTRACT EP 505781 A2

A generic network device includes a serial line switching apparatus for performing either parallel or serial communications amongst multiple nodes over switching networks. An aspect includes is the adaptation of standard and proprietary serial interfaces using either optical or electrical transmission media to interface to the parallel switch. The converted serial data is routed to the selected destination through the parallel switch network, where it is received and converted back into a serial optical or electrical interface/protocol. Thus, the combination of the switching adapter and an ALLNODE parallel switching network make it feasible for serial message data to be switched and routed to various destinations. A parallel electrical switch can efficiently handle either optical or electrical serial data and utilize information via wireless gateways to provide the features required for parallel processing and "farm" approaches, such as low latency, high bandwidth, scalability, fault tolerance, and high reliability. In addition, further flexibility is provided which permits the switching adapter to be personalized to support the any one of a number of standard and proprietary serial protocols. A personalisation PROM specifies the particular serial protocol that each individual adapter is to support. The parallel switching network becomes a flexible media that interconnects and allows different serial protocols to communicate with each other; i.e., any number of different serial protocols can interface with the same parallel switch network. This allows every node of the parallel system to send and receive messages using its own native protocol. However, a node is not restricted to communicating only with others nodes using the same protocol, but it can communicate with any of the other nodes regardless of the serial protocol they use. The switch enables generic networks with heterogeneous and/or homologous nodes as a computer system. It can replace LANs and WANs and provide high speed cluster switching. Applications include parallel processing with existing computers, and features of multiple processor computer system which transfer multi-media information from one or many senders to one or many receivers, useful in teaching and many other applications. The nodes of an asynchronous computer system are connected asynchronously in a non-blocking by search manner with connections for set up at 2 cycles per cascaded node and message transfer continues at maximum media transfer speed. (see image in original document)

ABSTRACT WORD COUNT: 382

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Change: 000719 A2 Title of invention (German) changed: 20000531  
Application: 920930 A2 Published application (Alwith Search Report  
;A2without Search Report)  
Lapse: 040121 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20011017, CH 20011017, LI 20011017, DK  
20020117, ES 20020430, NL 20011017, SE  
20020117,  
Lapse: 030226 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20011017, CH 20011017, LI 20011017, NL

20011017, SE 20020117,

Lapse: 030102 B1 Date of lapse of European Patent in a contracting state (Country, date): CH 20011017, LI 20011017, SE 20020117,

Lapse: 020619 B1 Date of lapse of European Patent in a contracting state (Country, date): SE 20020117,

Change: 010307 A2 Legal representative(s) changed 20010117

Grant: 011017 B1 Granted patent

Oppn None: 021009 B1 No opposition filed: 20020718

Lapse: 030212 B1 Date of lapse of European Patent in a contracting state (Country, date): CH 20011017, LI 20011017, NL 20011017, SE 20020117,

Lapse: 031105 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 20011017, CH 20011017, LI 20011017, DK 20020117, NL 20011017, SE 20020117,

Examination: 930317 A2 Date of filing of request for examination: 930120

Change: 930407 A2 Representative (change)

Change: 930512 A2 Representative (change)

Change: 931110 A2 Obligatory supplementary classification (change)

Search Report: 940209 A3 Separate publication of the European or International search report

Examination: 940601 A2 Date of despatch of first examination report: 940419

Change: 940921 A2 Representative (change)

Change: 971229 A2 Representative (change)

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	4256
CLAIMS B	(English)	200142	1981
CLAIMS B	(German)	200142	1872
CLAIMS B	(French)	200142	2452
SPEC A	(English)	EPABF1	39956
SPEC B	(English)	200142	39660
Total word count - document A			44214
Total word count - document B			45965
Total word count - documents A + B			90179

INTERNATIONAL PATENT CLASS: G06F-015/16 ...

...SPECIFICATION the following responses from the end of the serial interface receiving the continuous sequence:

1. **IDLE** - **Message** frame **transmission** is allowed - **Respond** with **IDLE** or send **message** frame.
  2. UD - Unconditional **Disconnect** - Respond with UDR sequence.
  3. UDR - Unconditional **Disconnect Response** - **Respond** with **IDLE**.
  4. NOS - Not Operational Sequence - **Respond** with OLS
  5. OLS - Off Line Sequence - Respond with UD
- Referring to Fig. 14, a...

...SPECIFICATION the following responses from the end of the serial interface receiving the continuous sequence:

1. **IDLE** - **Message** frame **transmission** is allowed - **Respond** with **IDLE** or send **message** frame.
  2. UD - Unconditional **Disconnect** - Respond with UDR sequence.
  3. UDR - Unconditional **Disconnect Response** - **Respond** with **IDLE**.
  4. NOS - Not Operational Sequence - **Respond** with OLS
  5. OLS - Off Line Sequence - Respond with UD
- Referring to Fig. 14, a...

34/5,K/18 (Item 18 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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00259067

**Multitask subscription data retrieval system.**

**Multiaufgabenteilnehmersystem fur das Wiederauffinden von Daten.**

**Systeme multitache pour la recherche de donnees d'abonne.**

PATENT ASSIGNEE:

WANG LABORATORIES INC., (333560), One Industrial Avenue, Lowell, MA 01851  
, (US), (applicant designated states: BE;DE;FR;GB)

INVENTOR:

Cross, Charles B., 3 Bonnie Lane, Billerica, MA 01821, (US)

Moy, Diana Y., 6 Old Farm Road, Wayland, MA 01778, (US)

LEGAL REPRESENTATIVE:

Behrens, Dieter, Dr.-Ing. et al , Patentanwalte WUESTHOFF-V.

PECHMANN-BEHRENS-GOETZ Schweigerstrasse 2, D-8000 Munchen 90, (DE)

PATENT (CC, No, Kind, Date): EP 258867 A2 880309 (Basic)

EP 258867 A3 . 900509

APPLICATION (CC, No, Date): EP 87112735 870901;

PRIORITY (CC, No, Date): US 903495 860903

DESIGNATED STATES: BE; DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-015/167

CITED PATENTS (EP A): GB 2161003 A; GB 2161003 A; GB 1489573 A; US 3597741  
A

CITED REFERENCES (EP A):

LA RECHERCHE, no. 153, March 1984, pages 407-409; GARDARIN: "Bases de  
donn es; la perc e des machines sp cialis es";

ABSTRACT EP 258867 A2

A multitask multiuser system provides for efficient transfer of data from a remote data base to individual subscribers and has particular utility in the distribution of data, especially of stock market data. A primary provider distributes the incoming data directly to user tasks or to an inquiry provider or a monitor provider. The inquiry provider responds to specific inquiries by users for information in the data base. The monitor provider maintains lists of information which are being monitored by the host computer for individual users. The inquiry provider and the monitor provider do not repeat requests to the remote data base where a similar request is already pending from another user. Data transfer paths between tasks are established by a code module which may be linked to any of the tasks. The transfer paths are established using information from a configuration list and they are monitored by the operating system through a wait list established for each user task. Providers in the system may establish subscriber lists through the code module.

ABSTRACT WORD COUNT: 175

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 880309 A2 Published application (Alwith Search Report  
;A2without Search Report)

Search Report: 900509 A3 Separate publication of the European or  
International search report

Examination: 910102 A2 Date of filing of request for examination:  
901105

Examination: 930630 A2 Date of despatch of first examination report:  
930519

Change: 950118 B1 International patent classification (change)

Lapse: 951018 B1 Date of lapse of the European patent in a  
Contracting State: BE 950104

Oppn None: 951227 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPBBF2	1921
CLAIMS B	(English)	EPBBF2	1206
CLAIMS B	(German)	EPBBF2	1075
CLAIMS B	(French)	EPBBF2	1423

SPEC A	(English)	EPBBF2	7822
SPEC B	(English)	EPBBF2	7796
Total word count - document A			9743
Total word count - document B			11500
Total word count - documents A + B			21243

INTERNATIONAL PATENT CLASS: G06F-015/167

...SPECIFICATION allows a request to be retransmitted only three times to avoid an endless loop of **requests** for a symbol which is **not** being **acknowledged**.

When a user **requests** that a symbol be deleted from its service, the user tree is scanned to locate the user and that symbol is **removed** from the **linked** list. Then, the symbol tree is scanned for the symbol and the user is removed...

...SPECIFICATION allows a request to be retransmitted only three times to avoid an endless loop of **requests** for a symbol which is **not** being **acknowledged**.

When a user **requests** that a symbol be deleted from its service, the user tree is scanned to locate the user and that symbol is **removed** from the **linked** list. Then, the symbol tree is scanned for the symbol and the user is removed...

34/5,K/22 (Item 22 from file: 349)  
 DIALOG(R)File 349:PCT FULLTEXT  
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01085437 \*\*Image available\*\*

**OPTIMIZED ROUTING BETWEEN COMMUNICATION NETWORKS**  
**ACHEMINEMENT OPTIMISE ENTRE DES RESEAUX DE COMMUNICATION**

Patent Applicant/Assignee:

NOKIA CORPORATION, Keilalahdentie 4, FIN-02150 Espoo, FI, FI (Residence),  
 FI (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

TUOHINO Markku, Koivusyrja 25 F, FIN-02130 Espoo, FI, FI (Residence), FI  
 (Nationality), (Designated only for: US)

Legal Representative:

LESON Thomas Johannes Alois (et al) (agent), TBK-Patent, Bavariaring 4-6,  
 80336 Munchen, DE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200408786 A1 20040122 (WO 0408786)

Application: WO 2002IB2782 20020716 (PCT/WO IB02002782)

Priority Application: WO 2002IB2782 20020716

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04Q-003/66

International Patent Class: H04Q-003/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 18714

**English Abstract**

The invention provides a method and system for routing a message or a set of messages or a session from a first equipment connected or registered to a first network, to a second equipment connected or registered to a second network. The first network includes a network entity which checks requirements of the message or set of messages or session, and decides on

the routing depending on the check result. The checked requirements may include media requirements of the message or set of messages or requested session. The checked requirements can also include QoS requirements of the message or set of messages or requested session.

#### French Abstract

Procède et système d'acheminement d'un message ou d'une série de messages ou d'une session d'un premier équipement connecté à un premier réseau ou enregistré auprès de ce premier réseau à un second équipement connecté à un second réseau ou enregistré auprès de ce second réseau. Le premier réseau comporte une entité de réseau qui vérifie les impératifs du message ou de la série de messages ou de la session, et qui décide de l'acheminement en fonction des résultats de la vérification. Les impératifs vérifiés peuvent comporter des impératifs de médias du message ou de la série de messages ou de la session demandée. Ils peuvent également comporter des impératifs de qualité de service (QoS) du message ou de la série de messages ou de la session demandée.

Legal Status (Type, Date, Text)

Publication 20040122 A1 With international search report.

Fulltext Availability:

Detailed Description

Detailed Description

... there will be, in this case, an  
"unknown domain", "not found" or alike response or **no  
response** at all from ENUM-DNS **database 6**.

4) The message/messageset/ **session** is then **released**, or routed further from S-CSCF 4 to the BGCF 9 in the home network...

**34/5,K/30 (Item 30 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00997883 \*\*Image available\*\*

**CLIENT-SIDE NETWORK ACCESS POLICES AND MANAGEMENT APPLICATIONS  
POLICES ET APPLICATIONS DE GESTION D'ACCES RESEAU COTE-CLIENT**

Patent Applicant/Inventor:

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(Residence), US (Nationality)

ADAMS Clint, 167, Stine Drive, Collegeville, PA 19426, US, US (Residence)  
, CA (Nationality)

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(Residence), CA (Nationality)

Legal Representative:

SACHAR Surinder (et al) (agent), Oblon, Spivak, McClelland, Maier &  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200327878 A1 20030403 (WO 0327878)

Application: WO 2002US30936 20020930 (PCT/WO US2002030936)

Priority Application: US 2001325290 20010928; US 2002364579 20020318

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO  
RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-015/16

International Patent Class: G06F-015/173

Publication Language: English

Filing Language: English

Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 14008

#### English Abstract

A remote access client is provided for enabling communication between a remote data terminal configured to access a public network, and an enterprise network by way of a VPN tunnel through the public network. The remote access client includes at least one application program interface (API) to receive a first verification of the operating state of a predetermined application of the remote data terminal to enable a connection agent for establishing a point of presence on the public network. Upon connection to the point of presence, the API exchanges data between the remote access client and the predetermined application of the remote data terminal. The remote access client receives a second periodic verification of the operating state of the predetermined application via the API for terminating the connection to the point of presence upon the absence of the second verification. The point of presence enables the VPN tunnel for transporting data from the remote data terminal to the enterprise network across the public network.

#### French Abstract

L'invention concerne un client d'accès distant permettant d'établir une communication entre un terminal de données distant configuré pour accéder à un réseau public, et un réseau d'entreprise à travers un tunnel VPN passant par le réseau public. Le client d'accès distant comporte au moins une interface de programme d'application (API) qui permet la réception d'un premier test de vérification de l'état opérationnel d'une application prédéterminée du terminal de données distant, afin de permettre l'activation d'un agent de connexion qui établit un point de présence (POP) dans le réseau public. Une fois qu'elle est connectée avec le point de présence, l'interface API assure un échange de données entre le client d'accès distant et l'application prédéterminée du terminal de données distant. Le client d'accès distant reçoit un second résultat de vérification périodique de l'état opérationnel de l'application prédéterminée par l'intermédiaire de l'API, et interrompt la connexion avec le point de présence en l'absence de ce second test de vérification. Le point de présence active le tunnel VPN afin de permettre le transport des données du terminal de données distant jusqu'au le réseau d'entreprise à travers le réseau public.

#### Legal Status (Type, Date, Text)

Publication 20030403 A1 With international search report.  
Examination 20031023 Request for preliminary examination prior to end of 19th month from priority date  
Correction 20040115 Corrected version of Pamphlet: pages 1/22-22/22, drawings, replaced by new pages 1/24-24/24  
Republication 20040115 A1 With international search report.

Fulltext Availability:  
Detailed Description

#### Detailed Description

... 01261 Firewall 12 not installed, remote access client 8 only deployed;  
[0127] Firewall 12 installed, **Firewall 12** active;  
[0128] Firewall 12 not installed, security policy manually disabled;  
[01291 Firewall 12 installed, security policy manually disabled;  
[01301 Firewall 12 installed, user **disconnected** - firewall 12 **not responding** ;  
[01311 Firewall 12 installed, user **disconnected** - firewall not active;  
36  
[01321 **Firewall 12** installed, remote user 2 **disconnected** - firewall 12 uninstalled during connection;  
[01331 **Firewall 12** installed, remote user 2 **disconnected** - unknown firewall 12 Status

[01341 Remote user 2 denied access - firewall 12 not responding  
[01351 Remote user 2 denied access - firewall 12 not active  
[01361 Remote user 2 denied access - unknown firewall . 12 status  
[01371 Remote user 2 denied access - firewall 12 not installed  
[0138] Table II...make the connection.

Firewall Status 2 0 - Firewall 12 installed, firewall 12 active;  
Code 1 - Firewall 12 not installed, security policy manually disabled;  
2 - Firewall 12 installed, security policy manually disabled;  
4 - Firewall 12 installed, remote user 2 disconnected - Firewall  
12 not responding ;  
8 - Firewall 12 installed, remote user 2 disconnected - firewall  
12 not active;  
10 - Firewall 12 installed, remote user 2 disconnected - firewall  
12 uninstalled during connection;  
20 - Firewall 12 installed, remote user 2 disconnected  
Unknown firewall 12 Status  
40 - Firewall 12 not installed, remote access client 8 only  
deployed;  
41 - Remote user 2 denied access - firewall . 12 not responding ;  
42 - Remote user denied access - firewall 12 not active;  
43 - Remote user denied access - unknown firewall 12 status;  
144 - Remote user denied access - firewall 12 not installed;  
38  
[01391 Of course, while the exemplary embodiment describes a firewall.  
application...

?t34/5,k/32,36-41,44,48,51,53

34/5,K/32 (Item 32 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00969536 \*\*Image available\*\*

**METHOD OF ATTENDANCE MANAGEMENT BY USING USER AUTHENTICATION ON ONLINE  
EDUCATION SYSTEM**

**PROCEDE DE GESTION DES PRESENCES PAR L'UTILISATION DE L'AUTHENTIFICATION DE  
L'UTILISATEUR DANS UN SYSTEME D'ENSEIGNEMENT EN LIGNE**

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(Nationality), (For all designated states except: US)

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LEE Dong-Won, 112-402 Hyundai Apartment, 700-1(1/18) Poongdukchun-Ri,  
Suji-Eup, Yongin, Gyeonggi 449-846, KR, KR (Residence), KR (Nationality)  
, (Designated only for: US)

Legal Representative:

PARK Sungmin (agent), 3F. Dongbo Bldg, 647-8, Yoksam-dong, Gangnam-Gu,  
Seoul 135-080, KR,

Patent and Priority Information (Country, Number, Date):

Patent: WO 2002103597 A1 20021227 (WO 02103597)

Application: WO 2002KR1159 20020619 (PCT/WO KR0201159)

Priority Application: KR 200134886 20010620

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU

SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/60

Publication Language: English

Filing Language: Korean

Fulltext Availability:

Detailed Description

# Claims

Fulltext Word Count: 2589

## English Abstract

There is provided a method of attendance management by using user authentication on an online education system, which is realized on the online system composed of a plurality of clients, a plurality of education servers having user DBs, and an authentication server for authenticating the client to give him or her authority to be able to access the education servers by using biometric information (fingerprints, the iris, the retina, etc.), comprises the steps of: registering the client's biometric information in the authentication server; the client's logging in the education server through the authentication of the authentication server; and re-authenticating the client while the online lecture goes on.

## French Abstract

L'invention concerne un procede de gestion des presences par l'utilisation de l'authentification de l'utilisateur dans un systeme d'enseignement en ligne; ce procede est mis en oeuvre dans un systeme en ligne compose de plusieurs clients, de plusieurs serveurs avec des bases de donnees utilisateur et d'un serveur d'authentification destine a authentifier le client pour lui donner l'autorite d'acceder aux serveurs d'enseignement en utilisant des informations biometriques (empreintes digitales, iris, retine, etc.). Il comprend les stades suivants: enregistrer les informations biometriques du client dans le serveur d'authentification; entrer (pour le client) dans le serveur d'enseignement via le serveur d'authentification; et authentifier de nouveau le client pendant que le cours en ligne est dispense.

## Legal Status (Type, Date, Text)

Publication 20021227 A1 With international search report.

Publication 20021227 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Examination 20030918 Request for preliminary examination prior to end of 19th month from priority date

## Fulltext Availability:

Claims

## Claim

... the authentication server's requesting the authentication repeatedly for predetermined times, if the client does **not respond** to the authentication server's **request**; and **disconnecting** the client from the education server, if the client did **not respond** to the repeated **request** for predetermined times. S. The method according to claim 7, wherein the biometric information is...

34/5,K/36 (Item 36 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00922408 \*\*Image available\*\*

**METHOD AND SYSTEM FOR DYNAMIC BANDWIDTH ALLOCATION IN AN OPTICAL ACCESS NETWORK**

**PROCEDE ET SYSTEME D'ALLOCATION DYNAMIQUE DE BANDE PASSANTE DANS UN RESEAU D'ACCES OPTIQUE**

Patent Applicant/Assignee:

ALLOPTIC INC, 2301 Armstrong Street, Suite 101, Livermore, CA 94550, US,  
US (Residence), US (Nationality)

Inventor(s):

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PESAVENTO Gerry, 1101 Eagle Place, Davis, CA 95616, US,

Legal Representative:

HANKIN Marc E (agent), Gordon & Rees, LLP, 300 South Grand Avenue, Suite 2075, Los Angeles, CA 90071-3132, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200256482 A2-A3 20020718 (WO 0256482)  
Application: WO 2002US664 20020111 (PCT/WO US0200664)  
Priority Application: US 2001759539 20010112

Designated States: CN JP

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Main International Patent Class: H04L-012/56

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 9726

English Abstract

An optical access network (202) and method for transmitting optical data in the network (202) utilizes an interleaved polling scheme to efficiently use the available bandwidth of the network (202). The use of the interleaved polling scheme allows a central terminal (204) of the network (202) to dynamically allocate upstream bandwidth from remote terminals (206, 208, 210) of the network (202) to the central terminal (204) in response to the amount of data that is waiting at the remote terminals (206, 208, 210) to be transmitted to the OLT (204). In one embodiment, the optical access network (202) is based on Passive Optical Network (PON) technology. In another embodiment, the optical access network (202) utilizes Ethernet protocol to encapsulate data in Ethernet frames for transmission. Thus, in these embodiments, the optical access network (202) includes all of the advantages associated with the PON technology and/or the Ethernet protocol.

French Abstract

L'invention se rapporte a un reseau d'accès optique et a un procede associe permettant de transmettre des donnees optiques dans ledit reseau au moyen d'un mecanisme d'interrogation entrelace visant a une utilisation efficace de la bande passante disponible du reseau. La mise en oeuvre de ce mecanisme d'interrogation entrelace permet a un terminal central du reseau d'allouer dynamiquement de la bande passante en amont de terminaux eloignes du reseau au terminal central en reaction a la quantite de donnees qui attend au niveau des terminaux eloignes pour etre transmis a l'equipement terminal de ligne optique (OLT). Dans un mode de realisation, le reseau d'accès optique est base sur une technologie de reseau optique passif (PON). Dans un autre mode de realisation, le reseau d'accès optique met en oeuvre le protocole Ethernet pour encapsuler des donnees dans des trames Ethernet en vue de leur transmission. Dans ces deux modes de realisation, le reseau d'accès optique presente tous les avantages associes a la technologie des reseaux optiques passifs et/ou du protocole Ethernet. En outre, etant donne que l'allocation de bande passante amont se fait en fonction des besoins, la perte de bande passante due a des intervalles de temps non remplis est sensiblement supprimee.

Legal Status (Type, Date, Text)

Publication 20020718 A2 Without international search report and to be republished upon receipt of that report.

Examination 20021212 Request for preliminary examination prior to end of 19th month from priority date

Search Rpt 20031016 Late publication of international search report

Republication 20031016 A3 With international search report.

Fulltext Availability:

Claims

Claim

... network of claim 32 wherein said processor of said central terminal is configured to detect **disconnected** remote terminals by identifying said 30 remote terminals that have **not responded** to said grant **messages** within a timeout period. . The network of claim 37 wherein said processor of said central...

34/5,K/37 (Item 37 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00913737

**SYSTEM FOR PROACTIVE MANAGEMENT OF NETWORK ROUTING**  
**SYSTEME DE GESTION PROACTIVE DE ROUTAGE DE RESEAU**

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200246947 A1 20020613 (WO 0246947)

Application: WO 2001US45160 20011204 (PCT/WO US0145160)

Priority Application: US 2000250480 20001204

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-015/173

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6977

**English Abstract**

The invention provides a system and method for managing network routing utilizing mathematical analysis. The method includes the act of copying a current setting of link costs to a new setting and utilizing the new setting of link cost to compute the shortest path routes used for all source and destination pairs. For each of the source destination pair, corresponding traffic volume is cast to each link along the route. In case of multiple routes with equal routes, traffic is split among the routes. Next, the traffic caused by all source and destination pairs is summed up to get the utilization of each link. Then, the value of objective function of utilization and link cost is computed. If a minimum is determined, the new setting of link cost is installed. If not, the utilization of each link is mapped into a new link cost and the shortest path routes are computed over.

**French Abstract**

L'invention concerne un systeme et un procede permettant de gerer le routage de reseau par une analyse mathematique. Le procede consiste a copier un parametre actuel de couts de liaison vers un nouveau parametre et a utiliser le nouveau parametre de couts de liaison pour calculer les voies d'acheminement les plus courtes pour toutes les paires source et destination. Pour chaque paire source et destination, un volume de trafic correspondant est distribue a chaque liaison le long de la voie. En cas de voies multiples a voies egales, le trafic est reparti parmi les differentes voies. Le trafic entraine par toutes les paires source et destination est ensuite additionne pour obtenir l'utilisation de chaque liaison. La valeur de fonction objective d'utilisation et de couts de

liaison est alors calculee. Si un minimum est determine, le nouveau parametre de couts de liaison est installe. Dans le cas contraire, l'utilisation de chaque liaison est mappe dans un nouveau cout de liaison et les voies d'acheminement les plus courtes sont recalculées.

Legal Status (Type, Date, Text)

Publication 20020613 A1 With international search report.

Examination 20030206 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-015/173

Fulltext Availability:

Detailed Description

Detailed Description

... will regenerate the appropriate LSA and send it out to other neighbors; and finally, all **unacknowledged** LSA and Topology **messages** will be resent after a time-out. This timer will be **canceled** if the **link** to the peer goes down.

Development Environment Desc

[0036] The simulation components were developed by...

34/5,K/38 (Item 38 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00911811 \*\*Image available\*\*

**NETWORK ACCESS SYSTEM INCLUDING A PROGRAMMABLE ACCESS DEVICE HAVING DISTRIBUTED SERVICE CONTROL**  
**SYSTEME D'ACCES AU RESEAU INCLUANT UN APPAREIL D'ACCES PROGRAMMABLE A COMMANDE DE SERVICES DISTRIBUES**

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Inventor(s):

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YAO Lei, 2000 S. Eads Street, #517, Arlington, VA 22202, US,

Legal Representative:

GROLZ Edward W (agent), Scully, Scott, Murphy & Presser, 400 Garden City Plaza, Garden City, NY 11530, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200245317 A2-A3 20020606 (WO 0245317)

Application: WO 2001US44398 20011128 (PCT/WO US0144398)

Priority Application: US 2000723482 20001128

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-012/28

International Patent Class: H04L-012/56; G06F-015/16

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 18982

English Abstract

A distributed network access system (30) in accordance with the present invention includes at least an external processor (42) and a programmable access device (40). The programmable access device has a message

interface coupled to the external processor and first and second network interfaces through which packets are communicated with a network. The programmable access device includes a packet header filter and a forwarding table (50) that is utilized to route packets communicated between the first and second network interfaces. In response to receipt of a series of packets, the packet header filter in the programmable access device identifies messages in the series of messages upon which policy-based services are to be implemented and passes identified messages via the message interface to the external processor for processing. In response to receipt of a message, the external processor invokes service control on the message and may also invoke policy control (48) on the message.

#### French Abstract

La presente invention concerne un systeme d'accès au reseau distribue incluant au moins un processeur externe et un appareil d'accès programmable. Cet appareil d'accès programmable comporte une interface messages couplee au processeur externe, ainsi que deux interfaces reseau permettant l'echange des paquets avec un reseau. L'appareil d'accès programmable comporte un filtre a en-tetes de paquets et une table de reacheminement qui sert a l'acheminement des paquets echanges entre les deux interfaces reseau. En reaction a la reception d'une serie de paquets, le filtre d'en-tetes de paquets de l'appareil d'accès programmable commence par identifier les messages dans la serie de messages pour lesquels on doit mettre en oeuvre des services a base de politique, puis remet en vue de traitement les messages identifiés au processeur externe via l'interface messages. En reaction a la reception d'un message, le processeur externe sollicite la commande de service pour le message, tout en pouvant egalement solliciter la commande de politique pour ce meme message.

#### Legal Status (Type, Date, Text)

Publication 20020606 A2 Without international search report and to be republished upon receipt of that report.  
Examination 20021121 Request for preliminary examination prior to end of 19th month from priority date  
Search Rpt 20030213 Late publication of international search report  
Republication 20030213 A3 With international search report.

...International Patent Class: G06F-015/16

Fulltext Availability:  
Detailed Description

#### Detailed Description

... reports a timeout error to service controller 120, as shown at reference numeral 172. In **response** to receipt of the timeout **error message**, service controller 120 **deletes** the TCP **session** from its active session **table** and updates the configuration of PAD 40 to remove the inactivity timer and other configuration...140 of the TCP session to idle state 142 and reports the TCP session timeout **error** to ECSC 120. ECSC 120 **responds** to the report of the timeout error by **deleting** the TCP **session** from its active Session **table** and instructs PAD 40 to stop marking the packets for the TCP session and to...

34/5,K/39 (Item 39 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00911735 \*\*Image available\*\*

PROGRAMMABLE ACCESS DEVICE FOR A DISTRIBUTED NETWORK ACCESS SYSTEM  
APPAREIL D'ACCES PROGRAMMABLE POUR SYSTEME D'ACCES DE RESEAU DISTRIBUE

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200244844 A2-A3 20020606 (WO 0244844)

Application: WO 2001US44397 20011128 (PCT/WO US0144397)

Priority Application: US 2000723481 20001128

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CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-015/16

International Patent Class: G06F-013/38; G06F-013/00; G08B-029/00;

H04L-012/56

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 18874

English Abstract

A programmable access device for use in a network access system includes first and second network interfaces (32, 58 Access network) through which packets are communicated with a network, a forwarding table (86) utilized to route packets communication between the first and second network interfaces, and a packet header filter (80, 90). The packet header filter (80, 90) identifies messages received at one of the first and second network interface on which policy-based services are to be implemented and passes identified messages via a message interface (100) to an external processor (42) for processing. In preferred embodiments, the packet header filter (80, 90) is capable of filetering packets for service processing based upon protocol information pertaining to protocol layers higher than layer 3. In preferred embodiments, the programmable access device may also include a usage monitor that reports events, such as session activity levels, to the external processor (42), a policer (82) that polices packets by reference to programmed traffic parameters, and a scheduler that schedules (96) the transmission of outgoing packets to support multiple quality of service classes.

French Abstract

La presente invention concerne un appareil d'accès programmable destine a un systeme d'accès de reseau. Il comprend deux interfaces reseau pour l'echange de paquets avec un reseau, une table de reacheminement servant a l'acheminement des paquets échanges entre les deux interfaces reseau, et un filtre d'en-tetes de paquets. Le filtre d'en-tetes de paquets identifie les messages recus a l'une des interfaces reseau sur lesquelles doivent etre mis en oeuvre les services a base de politiques, et remet pour traitement a un processeur interne via une interface message les messages identifiés. Selon des modes de realisation preferes, le filtre d'en-tetes de paquets est capable de filtrer des paquets destines a un traitement de services sur la base d'informations de protocole concernant des couches de protocole superieures a la couche 3. Selon des modes de realisation preferes, l'appareil d'accès programmable comporte egalement, d'une part un module de suivi d'utilisation qui rend compte a un processeur externe d'evenements tels que les niveaux d'activite des sessions, d'autre part un gendarme qui fait la police des paquets en tenant compte de parametres de trafic programmes, et enfin un module d'ordonnancement qui ordonne l'emission des paquets sortant de facon a admettre plusieurs classes de qualite de service.

Legal Status (Type, Date, Text)

Publication 20020606 A2 Without international search report and to be

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Republication 20020829 A3 With international search report.  
Examination 20021121 Request for preliminary examination prior to end of  
19th month from priority date

Main International Patent Class: **G06F-015/16**

Fulltext Availability:

Detailed Description

Detailed Description

... reports a timeout error to service controller 120, as shown at reference numeral 172. In **response** to receipt of the timeout **error message**, service controller 120 **deletes** the TCP **session** from its active session **table** and updates the configuration of PAD 40 to remove the inactivity timer and other configuration...140 of the TCP session to idle state 142 and reports the TCP session timeout **error** to ECSC 120. ECSC 120 **responds** to the report of the timeout error by **deleting** the TCP **session** from its active session **table** and instructs PAD 40 to stop marking the packets for the TCP session and to...

**34/5,K/40 (Item 40 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00910790 \*\*Image available\*\*

**MESSAGE, CONTROL AND REPORTING INTERFACE FOR A DISTRIBUTED NETWORK ACCESS SYSTEM**

**INTERFACE MESSAGERIE, COMMANDE ET COMPTES RENDUS POUR SYSTEME D'ACCES DE RESEAU DISTRIBUE**

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

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Application: WO 2001US44396 20011128 (PCT/WO US0144396)

Priority Application: US 2000723480 20001128

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CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: **G06F-015/16**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 18774

English Abstract

A network access system includes an external processor and a programmable access device (PAD) (40a, 40b). The external processor (42) transmits a control message to the PAD (40a, 40b) to establish a configuration of the PAD. The PAD then communicates messages to the external processor (42) for service processing in accordance with the configuration. To limit the communication of network messages from the PAD to the external processor, the PAD can send a message setting message interface flags in the PAD. The

external processor may also transmit a monitor control message to the PAD to establish a configuration of a monitor in the PAD. The PAD then communicates reporting messages to the external processor in response to the configuration of the monitor.

#### French Abstract

La presente invention concerne un systeme d'accès a un reseau incluant un processeur externe et un appareil d'accès programmable ou "PAD" pour "programmable access device" (40a, 40b). En l'occurrence, le processeur externe (42) émet un message de commande a destination du PAD (40a, 40b) de façon a établir une configuration du PAD. Le PAD envoie alors au processeur externe (42) des messages destinés a traiter les services en tenant compte de la configuration. Pour limiter les envois de messages reseau du PAD au processeur externe, le PAD peut envoyer un message definissant des indicateurs dans le PAD. Le processeur externe peut également envoyer au PAD un message de gestion de surveillance permettant de définir une configuration se rapportant a une fonction de surveillance siegeant dans le PAD. Le PAD est alors en mesure de renvoyer au processeur externe des messages de comptes rendus en reaction a la configuration de la fonction de surveillance.

Legal Status (Type, Date, Text)

Publication 20020606 A1 With international search report.

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Examination 20021121 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-015/16

Fulltext Availability:

Detailed Description

#### Detailed Description

... reports a timeout error to service controller 120, as shown at reference numeral 172. In **response** to receipt of the timeout **error message**, service controller 120 **deletes** the TCP **session** from its active session **table** and updates the configuration of PAD 40 to remove the inactivity timer and other configuration...140 of the TCP session to idle state 142 and reports the TCP session timeout **error** to ECSC 120. ECSC 120 **responds** to the report of the timeout error by **deleting** the TCP **session** from its active session **table** and instructs PAD 40 to stop marking the packets for the TCP session and to...

34/5,K/41 (Item 41 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00910785 \*\*Image available\*\*

**EXTERNAL PROCESSOR FOR A DISTRIBUTED NETWORK ACCESS SYSTEM**  
**PROCESSEUR EXTERNE POUR SYSTEME D'ACCES A UN RESEAU REPARTI**

Patent Applicant/Assignee:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200244914 A1 20020606 (WO 0244914)

Application: WO 2001US44395 20011128 (PCT/WO US0144395)

Priority Application: US 2000723501 20001128

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO  
RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-013/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 18509

#### English Abstract

An external processor (42) for a network access system having a programmable access device (40a, 40b) includes a service controller (120a, 120b) that provides at least one service for network traffic, a message processor (122) that processes network messages for service processing by the service controller (120a, 120b), and a programmable access device controller (124) that programs the programmable access device (40a, 40b) in response to service controller processing. It is advantageous for the external processor (42) to include primary (120a) and secondary service controllers (120b) for a particular service so that, if the primary service controller (120a) fails, the secondary service controller (120b) can provide the particular service for message received from the programmable access device (40a, 40b). In preferred embodiments, the service controller further includes a reporting processor (126) that provides an interface through which reporting messages received from the programmable access device (40a, 40b) can be communicated to the service controller (120a, 120b) and a signaling controller (128a, 128b) that transmits signals to configure network hardware to establish requested network connections. The external processor (42) preferably further supports a service policy interface (56) through which the service controller (120a, 120b) can request policy decisions from a possibly remote policy server.

#### French Abstract

Cette invention se rapporte a un processeur externe (42), qui est destine a un systeme d'accès a un reseau comportant un dispositif d'accès programmable (40a, 40b) et qui comprend a cet effet un controleur de services (120a, 120b) qui fournit au moins un service de trafic reseau, un processeur de messages (122) qui traite les messages reseau pour le traitement des services par le controleur de service (120a, 120b) et un controleur de dispositif d'accès programmable (124) qui programme le dispositif d'accès programmable (40a, 40b) en reponse au traitement par le controleur de service. Il est avantageux que le processeur externe (42) contienne des controleurs de services primaire (120a) et secondaire (120b) pour un service particulier, de telle sorte que, en cas de panne du controleur de services primaire (120a), le controleur de services secondaire (120b) peut fournir le service particulier pour le message recu en provenance du dispositif d'accès programmable (40a, 40b). Dans des modes de realisation preferes, le controleur de service comprend en outre un processeur de rapport (126) qui fournit une interface par laquelle les messages de rapport recus en provenance du dispositif d'accès programmable (40a, 40b) peuvent etre communiquees au controleur de service (120a, 120b) et a un controleur de signalisation (128a, 128b) qui transmet les signaux permettant de configurer le materiel reseau, en vue d'etablir les connexions reseau requises. En outre, ce processeur externe (42) prend de preference en charge une interface de strategie de service (56) par laquelle le controleur de services (120a, 120b) peut solliciter des decisions strategiques a un serveur de strategie si possible distant.

Legal Status (Type, Date, Text)

Publication 20020606 A1 With international search report.

Examination 20021121 Request for preliminary examination prior to end of  
19th month from priority date

Fulltext Availability:

## Detailed Description

### Detailed Description

... reports a timeout error to service controller 120, as shown at reference numeral 172. In **response** to receipt of the timeout **error** message, service controller 120 **deletes** the TCP **session** from its active session **table** and updates the configuration of PAD 40 to remove the inactivity timer and other configuration...

**34/5,K/44** (Item 44 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00553144

### **METHOD AND APPARATUS FOR ACCESSING A COMPUTER NETWORK COMMUNICATION CHANNEL PROCEDE ET DISPOSITIF PERMETTANT D'ACCEDER A UN CANAL DE COMMUNICATION DANS UN RESEAU INFORMATIQUE**

Patent Applicant/Assignee:

SHAREWAVE INC,

Inventor(s):

GUBBI Rajugopal R,

EKAMBARAM Natarajan,

PATRA Nirmalendu Bikash,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200016517 A2 20000323 (WO 0016517)

Application: WO 99US20478 19990910 (PCT/WO US9920478)

Priority Application: US 98151579 19980911

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE

ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT

LÜ LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT

UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU

TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG

CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: H04L-012/28

International Patent Class: H04L-029/06; H04L-012/413; H04L-001/16

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 16795

### English Abstract

Admission to a computer network is provided by having a network device listen to a communication channel communicatively coupling two or more components of the computer network. In some cases, the network device may then transmit a connection request to a controller of the computer network within a designated time slot of the communication channel. In other cases, the connection request may be transmitted without requiring the network device to be polled. The connection request may be confirmed by transmitting the connection request from the controller to network device periodically, until a response from the first network device is received by the controller. Upon confirmation, the controller may send to the network device, a connection agreements package, which includes information regarding time slots within the communication channel to be used by the controller for transmitting information to the first network device. The connection agreement packet may further include information regarding time slots within the communication channel to be used by the network device when transmitting information to the controller. Thus, during normal communications, data from the network device destined for the controller may be transmitted in the time slots designated in the connection agreement packet. In some cases, the information sent between the network device and the controller includes packets and, in such cases, the connection agreement may include information regarding a maximum number of bytes the network device can send or expect to receive in each packet, for each type of data included in a packet.

### French Abstract

L'admission a un reseau informatique se fait grace a un dispositif du reseau qui ecoute un canal de communication couple a deux ou plusieurs composants dudit reseau de facon a les mettre en communication. Dans certains cas, le dispositif transmet a un controleur du reseau une demande d'etablissement de connexion a l'interieur d'un creneau temporel predefini du canal de communication. Dans d'autres cas, la demande d'etablissement de connexion est transmise sans qu'il soit necessaire d'inviter le dispositif a emettre. Le controleur peut confirmer la demande en la transmettant periodiquement au dispositif, jusqu'a ce qu'il recoive une reponse de celui-ci. Apres confirmation, le controleur envoie au dispositif un paquet d'accord de connexion, qui comprend des informations concernant les creneaux temporels, dans le canal de communication, qu'il peut utiliser pour transmettre des informations au dispositif reseau. Le paquet d'accord de connexion peut comprendre en outre des informations concernant les creneaux temporels, dans le canal de communication, qui peuvent etre utilises par le dispositif reseau pour transmettre des informations au controleur. Durant les communications normales, les donnees envoyees au controleur par le dispositif reseau sont donc transmises dans les creneaux designes par le paquet d'accord. Dans certains cas, les informations transmises au controleur par le dispositif renferment des paquets et l'accord de connexion peut alors comprendre des informations concernant le nombre maximum d'octets que le dispositif peut envoyer ou s'attendre a recevoir dans chaque paquet pour chaque type de donnees comprises dans ledit paquet.

# Fulltext Availability:

## Claims

### Claim

```
... XX CAG With
new session ID
Wait
ql@
CAG ACK with new
session ID / Info packet
a
/00
FigUre
/11
Not Disconnect Ack
from all / broadca B d channel/ broadcast orma
Remain Quiet Remain Qu Comm
to ood...
```

34/5,K/48 (Item 48 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00431446 \*\*Image available\*\*

## CHANNEL RESOURCE MANAGEMENT WITHIN A DIGITAL MOBILE COMMUNICATIONS NETWORK GESTION DE RESSOURCES DE CANAUX A L'INTERIEUR D'UN RESEAU DE COMMUNICATIONS MOBILES NUMERIQUES

Patent Applicant/Assignee:

TELEFONAKTIEBOLAGET LM ERICSSON (publ),

Inventor(s):

NORSTEDT Bengt,  
WESTER Magnus,  
BODIN Roland,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9821910 A2 19980522

Application: WO 97SE1801 19971028 (PCT/WO SE9701801)

Priority Application: US 96747201 19961112

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES  
FI GB GE GH HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK  
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU  
ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES  
FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD

TG

Main International Patent Class: H04Q-007/38

International Patent Class: H04Q-07:22

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 7428

#### English Abstract

A disconnect time in accordance with the Global System for Mobile (GSM) Phase 1 standard is reduced within a particular base station controller (BSC) serving a particular mobile station (20). In response to a Layer 2 Disconnect message from a first mobile station (20) and after the expiration of the reduced disconnect time, the serving BTS (30) releases the indicated logical channel from the first mobile station (20) and enables the connected base station control (BSC) (40) to more efficiently allocate the released logical channel (SDCCH or TCH) to a second mobile station (25). Thereafter, additional Layer 2 Disconnect messages transmitted by the first mobile station (20) are ignored and **no acknowledging Disconnect Mode (DM) message** is transmitted over the indicated logical channel. Thus, collision over the same logical channel between the first and second mobile stations (20, 25) is avoided and the second mobile station (25) is able to communicate over the allocated logical channel.

#### French Abstract

Dans cette invention, un temps de deconnexion en accord avec la norme de Phase 1 GSM (Groupe special mobile) est reduit a l'interieur d'un controleur de station de base particulier (BSC) desservant une station mobile particuliere (20). En reponse a un message de deconnexion de couche 2 provenant d'une premiere station mobile (20) et apres l'expiration du temps de deconnexion reduit, la station de base BTS serveuse (30) libere le canal logique indique de la premiere station mobile (20) et permet au controleur de station de base connecte (BSC) (40) d'attribuer plus efficacement le canal logique libere (SDCCH ou TCH) a une seconde station mobile (25). Ensuite, les messages de deconnexion de couche 2 additionnels, transmis par la premiere station mobile (20) sont ignores et aucun message d'accuse de reception en mode deconnexion (DM) n'est transmis sur le canal logique indique. Ainsi, toute collision sur le meme canal logique entre la premiere et la seconde station mobile (20, 25) est evitee et la seconde station mobile (25) peut alors communiquer sur le canal logique attribue.

#### English Abstract

...additional Layer 2 Disconnect messages transmitted by the first mobile station (20) are ignored and **no acknowledging Disconnect Mode (DM) message** is transmitted over the indicated logical channel. Thus, collision over the same logical channel between...

34/5,K/51 (Item 51 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00398852 \*\*Image available\*\*

**DYNAMIC ASSIGNMENT OF SIGNALLING VIRTUAL CHANNELS FOR WIRELESS ATM SYSTEMS**  
**AFFECTATION DYNAMIQUE DE CANAUX VIRTUELS DE SIGNALISATION POUR SYSTEMES ATM**  
**SANS FIL**

Patent Applicant/Assignee:

ASCOM TECH AG,

Inventor(s):

KUEHNEL Thomas,

WU Yung-Shain,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9739595 A1 19971023

Application: WO 97IB288 19970324 (PCT/WO IB9700288)

Priority Application: US 96632101 19960415

Designated States: CN JP  
Main International Patent Class: H04Q-007/24  
International Patent Class: H04Q-11:04  
Publication Language: English  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 7504

#### English Abstract

A wireless communication system for asynchronous transfer mode includes the dynamic assignment of signalling virtual channels and/or virtual paths for communications between a mobile terminal and a controller or control function. An access point (AP) associated with the wireless mobile terminal (MT) is transparent for transmitted data and control information. The dynamic assignment of the signalling virtual channel (SVC) takes place in the event of new registration to the system and handover from one access point to another. The protocol uses finite state machines and timers at the mobile terminal and at the control function. For new registrations, an assignment channel is used on a broadcast uplink from the mobile terminal to the control function to request the SVC, while the response from the control function is transmitted on the downlink broadcast channel. The response contains the unique signalling virtual channel identifier (SVCID) to be used by the mobile terminal and the control function for further signalling between them. A loss of carrier connection is detected by exchanging alive **messages**. If there is **no response** to the alive **messages**, pending **connections** are **released** and assigned SVCs are freed. Handover from one access point to another is initiated by the mobile terminal. A new SVCID is assigned by the control function as part of the messages exchanged during the handover protocol.

#### French Abstract

Un systeme de communications sans fil pour mode de transfert asynchrone comporte l'affectation dynamique de canaux virtuels de signalisation et/ou de chemins virtuels pour communications entre un terminal mobile et une unite de commande ou une fonction de commande. Un point d'accès associe au terminal mobile sans fil est transparent a des donnees transmises et a une information de commande. L'affectation dynamique du canal virtuel de signalisation (SVC) a lieu dans le cas d'un nouvel enregistrement vers le systeme et d'une commutation d'un point d'accès a un autre. Le protocole utilise des automates finis et des temporisateurs sur le terminal mobile ainsi que sur la fonction de commande. Pour de nouveaux enregistrements, un canal d'affectation est utilise sur une liaison montante de diffusion du terminal mobile vers la fonction de commande pour demander le SVC alors que la reponse en provenance de la fonction de commande est transmise sur le canal de diffusion a liaison descendante. La reponse contient le seul identificateur de canal virtuel de signalisation (SVCID) que doivent utiliser le terminal mobile et la fonction de commande pour une nouvelle signalisation entre eux. Une perte de connexion de portuse est decelee par un echange de messages valides. Si ces derniers restent sans reponse, des connexions en instance et des SVC sont liberes et le terminal mobile ordonne une commutation d'un point d'accès a un autre. La fonction de commande affecte un nouveau SVCID dans le cadre des messages echanges durant le protocole de commutation.

#### English Abstract

...for further signalling between them. A loss of carrier connection is detected by exchanging alive **messages**. If there is **no response** to the alive **messages**, pending **connections** are **released** and assigned SVCs are freed. Handover from one access point to another is initiated by  
...

00275372      \*\*Image available\*\*

**ADAPTIVE GAIN AND FILTERING CIRCUIT FOR A SOUND REPRODUCTION SYSTEM**  
**CIRCUIT DE FILTRAGE ET DE GAIN ADAPTATIF DESTINE A UN SYSTEME DE**  
**REPRODUCTION DES SONS**

Patent Applicant/Assignee:

CENTRAL INSTITUTE FOR THE DEAF,

Inventor(s):

ENGEBRETSON Maynard A,

O'CONNELL Michael P,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9423548 A1 19941013

Application: WO 94US4004 19940406 (PCT/WO US9404004)

Priority Application: US 9344246 19930407

Designated States: CA FI JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: H04R-025/00

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 34067

English Abstract

Adaptive compressive gain and level dependent spectral shaping circuitry for a hearing aid include a microphone to produce an input signal and a plurality of channels connected to a common circuit output (102). Each channel has a preset frequency response. Each channel includes a filter (F1, F2, F3, F4) with a preset frequency response to receive the input signal (12) and to produce a filtered signal, a channel amplifier to amplify the filtered signal to produce a channel output signal, a threshold register (34) to establish a channel threshold level, and a gain circuit (24). The gain circuit increases the gain of the channel amplifier when the channel output signal falls below the channel threshold level and decreases the gain of the channel amplifier when the channel output signal rises above the channel threshold level. A transducer produces sound in response to the signal passed by the common circuit output.

French Abstract

Des circuits de mise en forme spectrale liee au niveau et de gain de compression adaptatif comportent un microphone destine a produire un signal d'entree et plusieurs voies connectees a une sortie (102) de circuit commune. Chaque voie presente une reponse en frequence prereglee et un filtre (F1, F2, F3, F4) a reponse en frequence prereglee qui recoit le signal d'entree (12) et produit un signal filtre, ainsi qu'un amplificateur de voie qui amplifie le signal filtre pour produire un signal de sortie de voie, un registre (34) de seuil qui etablit un niveau de seuil de voie, et un circuit (24) de gain. Ce dernier accroît le gain de l'amplificateur de voie quand le signal de sortie de la voie tombe au-dessous du niveau de seuil de cette voie, et il abaisse le gain de l'amplificateur de voie quand le signal de sortie de la voie depasse le niveau de seuil de cette voie. Un transducteur produit des sons en reaction au signal transmis par la sortie de circuit commune.

Fulltext Availability:

Detailed Description

Detailed Description

... the options which

0

apply to that particular program appears in the menu bar. If no

0

response is received from the hearing aid, the menu entitled "WDHA

0

Disconnected " appears in the menu bar, as follows.

File WDHR Disconnected

Should this menu appear, this indicates that there is some problem with the hearing aid...

?

41/5,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01743576

**Method and device for multicast group management**  
**Verfahren und Vorrichtung zur Verwaltung von Mehrfachsendungsgruppen**  
**Procede et dispositif pour gerer des groupes de multidiffusion**  
PATENT ASSIGNEE:

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(CA), (Applicant designated States: all)

INVENTOR:

Poulsen, Allan Leslie, 16 Sandwell Crescent, Kanata, Ontario K2K 1V3,  
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Crane, Stephen Elliott, 118 Canyon Drive, Kinburn, Ontario K0A 1H0, (CA)

LEGAL REPRESENTATIVE:

Feray, Valerie et al (80167), Feray Lenne Conseil 44/52, Rue de la  
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PATENT (CC, No, Kind, Date): EP 1427132 A2 040609 (Basic)

APPLICATION (CC, No, Date): EP 2003300237 031201;

PRIORITY (CC, No, Date): US 310910 021206

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS: H04L-012/18

ABSTRACT EP 1427132 A2

A fast service restoration for a lost IGMP Leave request. The network  
node does a comparison to determine if Leave messages are lost in  
transmission from an end-user system to a supporting network node.

ABSTRACT WORD COUNT: 35

NOTE:

Figure number on first page: NONE

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 040609 A2 Published application without search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	200424	338
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SPEC A	(English)	200424	2139
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Total word count - document A	2477
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Total word count - document B	0
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Total word count - documents A + B	2477
------------------------------------	------

INTERNATIONAL PATENT CLASS: H04L-012/18

...SPECIFICATION match resulting from the comparison. A GSQ for the group  
of the matching previous Join **request** and if there is **not** a **response**  
as per normal GSQ processing, **terminating** the **connection** to the  
group.

The invention frees up the no-longer required bandwidth and accepts new

...

41/5,K/6 (Item 6 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00735436

**PACKET DATA TRANSMISSION WITH ASYNCHRONOUS BANDWIDTH SWITCHING**  
**PAKETDATENUBERTRAGUNG MIT ASYNCHRONER BANDBREITESCHALTUNG**  
**TRANSMISSION DE DONNEES PAR PAQUETS AVEC COMMUTATION ASYNCHRONE DE LA**  
**LARGEUR DE BANDE**  
PATENT ASSIGNEE:

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INVENTOR:

SOLOMON, David, 561 Dorchester Drive, River Vale, NJ 07675, (US)  
PUTNINS, Zignunds, Andis, 572 Fairway Road, Ridgewood, NJ 07450, (US)  
GISH, David, Wayne, 6 Stratford Place, Riverdale, NJ 07457, (US)  
MENDELSON, Jeffrey, Bruce, 52 Colonial Drive, Shewsbury, MA 01545, (US)

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Musker, David Charles et al (62142), R.G.C. Jenkins & Co. 26 Caxton  
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PATENT (CC, No, Kind, Date): EP 720809 A1 960710 (Basic)

EP 720809 B1 991103

WO 9529570 951102

APPLICATION (CC, No, Date): EP 95917626 950421; WO 95US4958 950421

PRIORITY (CC, No, Date): US 232952 940425

DESIGNATED STATES: BE; CH; DE; ES; FR; GB; IE; IT; LI; NL

INTERNATIONAL PATENT CLASS: H04Q-011/04; **H04L-012/64**

CITED PATENTS (EP B): EP 168927 A; EP 212031 A; DE 3919154 A; US 4763319 A

CITED REFERENCES (EP B):

COMPUTER NETWORKS AND ISDN SYSTEMS, vol.24, no.2, April 1992, AMSTERDAM  
NL pages 131 - 144, XP257847 R. COHEN ET AL. 'A new scheme for dynamic  
management of isochronous channels in integrated rings';

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Oppn None: 001018 B1 No opposition filed: 20000804

Application: 960117 A International application (Art. 158(1))

Lapse: 030219 B1 Date of lapse of European Patent in a  
contracting state (Country, date): BE  
20000430, CH 20000430, LI 20000430, ES  
19991103, FR 19991103, IE 20000421, NL  
19991103,

Lapse: 020626 B1 Date of lapse of European Patent in a  
contracting state (Country, date): BE  
20000430, CH 20000430, LI 20000430, ES  
19991103, IE 20000421,

Lapse: 011212 B1 Date of lapse of European Patent in a  
contracting state (Country, date): BE  
20000430, IE 20000421,

Lapse: 010530 B1 Date of lapse of European Patent in a  
contracting state (Country, date): BE  
20000430,

Lapse: 020109 B1 Date of lapse of European Patent in a  
contracting state (Country, date): BE  
20000430, CH 20000430, LI 20000430, IE  
20000421,

Lapse: 020807 B1 Date of lapse of European Patent in a  
contracting state (Country, date): BE  
20000430, CH 20000430, LI 20000430, ES  
19991103, FR 19991103, IE 20000421,

Application: 960710 A1 Published application (A1with Search Report  
;A2without Search Report)

Examination: 960710 A1 Date of filing of request for examination:  
960425

Examination: 970611 A1 Date of despatch of first examination report:

Change: 990107 A1 Representative (change)

\*Assignee: 990107 A1 Applicant (transfer of rights) (change): ASCOM  
HOLDING AG (2606290) Belpstrasse 37 3000 Berne  
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BE;CH;DE;ES;FR;GB;IE;IT;LI;NL)

\*Assignee: 990107 A1 Previous applicant in case of transfer of  
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(applicant designated states:  
BE;CH;DE;ES;FR;GB;IE;IT;LI;NL)

\*Assignee: 990113 A1 Applicant (transfer of rights) (change): ASCOM  
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designated states:  
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\*Assignee: 990113 A1 Previous applicant in case of transfer of rights (change): ASCOM HOLDING AG (2606290) Belpstrasse 37 3000 Berne 14 (CH) (applicant designated states: BE;CH;DE;ES;FR;GB;IE;IT;LI;NL)

\*Assignee: 990120 A1 Applicant (transfer of rights) (change): ASCOM USA INC. (2616100) 9 East 9th Street Apt.1 New York, New York 10003 (US) (applicant designated states: BE;CH;DE;ES;FR;GB;IE;IT;LI;NL)

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\*Assignee: 990217 A1 Applicant (transfer of rights) (change): ASCOM ENTERPRISE NETWORKS, INC. (2626390) 400 Chestnut Ridge Road Woodcliff Lake, New Jersey 07675 (US) (applicant designated states: BE;CH;DE;ES;FR;GB;IE;IT;LI;NL)

\*Assignee: 990217 A1 Previous applicant in case of transfer of rights (change): ASCOM USA INC. (2616100) 9 East 9th Street Apt.1 New York, New York 10003 (US) (applicant designated states: BE;CH;DE;ES;FR;GB;IE;IT;LI;NL)

\*Assignee: 990224 A1 Applicant (transfer of rights) (change): Timeplex, Inc. (2536330) 400 Chestnut Ridge Road Woodcliff Lake, NJ 07675 (US) (applicant designated states: BE;CH;DE;ES;FR;GB;IE;IT;LI;NL)

\*Assignee: 990224 A1 Previous applicant in case of transfer of rights (change): ASCOM ENTERPRISE NETWORKS, INC. (2626390) 400 Chestnut Ridge Road Woodcliff Lake, New Jersey 07675 (US) (applicant designated states: BE;CH;DE;ES;FR;GB;IE;IT;LI;NL)

Grant: 991103 B1 Granted patent  
 LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9944	1326
CLAIMS B	(German)	9944	1081
CLAIMS B	(French)	9944	1713
SPEC B	(English)	9944	6452
Total word count - document A			0
Total word count - document B			10572
Total word count - documents A + B			10572

...INTERNATIONAL PATENT CLASS: H04L-012/64

...SPECIFICATION third column (8 INACT) in TABLE 1 shows what happens when DS0 channel 8 goes **inactive** in **response** to a **disconnect request**. The pad character 24, which destination node 114 has been programmed to ignore or discard...INACT) in TABLE 2 shows what happens when DS0 channels 8, 10, and 11 go **inactive** in **response** to **disconnect requests**. The pad character 24, which destination node 114 has been programmed to ignore or discard...

41/5,K/7 (Item 7 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
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00436481

ISDN terminal equipment operating with circuit switching mode and packet switching mode  
 ISDN-Endgerat wirksam mit Durchschaltvermittlungsbetrieb und mit Paketvermittlungsbetrieb  
 Terminal RNIS fonctionnant en mode de commutation en circuit et en mode de

**commutation en paquets**

**PATENT ASSIGNEE:**

MATSUSHITA GRAPHIC COMMUNICATION SYSTEMS, INC., (443932), 2-3-8,  
Shimomeguro, Meguro-ku, Tokyo 153, (JP), (applicant designated states:  
DE;FR;GB)

**INVENTOR:**

Hasegawa, Kenichi, Gurandouiru haitsu 301, 1555-4, Higashinaganuma,  
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**LEGAL REPRESENTATIVE:**

Hitching, Peter Matthew et al (74871), Haseltine Lake & Co., Hazlitt  
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PATENT (CC, No, Kind, Date): EP 429262 A2 910529 (Basic)  
EP 429262 A3 920701  
EP 429262 B1 960918

APPLICATION (CC, No, Date): EP 90312502 901116;

PRIORITY (CC, No, Date): JP 89297676 891117

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04Q-011/04; H04M-011/06; **H04L-012/64**

CITED PATENTS (EP A): EP 323083 A

**CITED REFERENCES (EP A):**

DATA COMMUNICATIONS. vol. 16, no. 11, October 1987, NEW YORK US pages 37  
- 255; J.I.FALEK ET AL.: 'Standards Makers Cementing ISDN Subnetwork  
Layers'

COMPUTER COMMUNICATIONS. vol. 11, no. 4, August 1988, GUILDFORD GB pages  
171 - 176; E.PEEL: 'International Extension of ISDN and Terminal  
Implications'

EDN ELECTRICAL DESIGN NEWS. vol. 32, no. 2, 22 January 1987, NEWTON,  
MASSACHUSETTS US pages 167 - 174; T.O'TOOLE: 'ISDN Terminals Simplify  
Data Transmissions';

**ABSTRACT EP 429262 A2**

ISDN terminal equipment containing: a circuit switched communication  
unit, a packet switched communication unit, a manual starting unit (1,  
5), an unsuccessful try detecting unit (2, 6), and a retrying unit (3,  
7). The manual starting unit (1, 5) starts the operation of setting up a  
call using a predetermined one of the circuit switched communication unit  
and the packet switched communication unit when receiving a manual start  
input. The unsuccessful try detecting unit (2, 6) detects that data  
communication has not been successfully begun by the operation of the  
manual starting unit. The retrying unit (3, 7) starts the operation of  
setting up a call using the other of the circuit switched communication  
unit and the packet switched communication unit when the unsuccessful try  
detecting unit determines that data communication has not been  
successfully begun by the operation of the manual starting unit. (see  
image in original document) (see image in original document)

**ABSTRACT WORD COUNT: 158**

**LEGAL STATUS (Type, Pub Date, Kind, Text):**

Application:	910529 A2	Published application (Alwith Search Report ;A2without Search Report)
Search Report:	920701 A3	Separate publication of the European or International search report
Examination:	921014 A2	Date of filing of request for examination: 920817
Examination:	940824 A2	Date of despatch of first examination report: 940708
Change:	960117 A2	Representative (change)
*Assignee:	960117 A2	Applicant (transfer of rights) (change): MATSUSHITA GRAPHIC COMMUNICATION SYSTEMS, INC. (443932) 2-3-8, Shimomeguro Meguro-ku, Tokyo 153 (JP) (applicant designated states: DE;FR;GB)
*Assignee:	960117 A2	Previous applicant in case of transfer of rights (change): FUJITSU LIMITED (211460) 1015, Kamikodanaka, Nakahara-ku Kawasaki-shi, Kanagawa 211 (JP) (applicant designated states: DE;FR;GB)
Grant:	960918 B1	Granted patent

Oppn None: 970910 B1 No opposition filed  
LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB96	326
CLAIMS B	(German)	EPAB96	280
CLAIMS B	(French)	EPAB96	369
SPEC B	(English)	EPAB96	5279
Total word count - document A			0
Total word count - document B			6254
Total word count - documents A + B			6254

...INTERNATIONAL PATENT CLASS: H04L-012/64

...SPECIFICATION the INS network sends a DISCONNECT message to the caller's terminal equipment where the **DISCONNECT** message includes a cause information element of "No user responding". Receiving the **DISCONNECT** message, the sender's terminal equipment sends a RELEASE message to the INS network. Thereafter, the...

41/5,K/8 (Item 8 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00363066

Distributed control rapid connection circuit switch and controlling method.  
Durchschaltungsvermittlungsanlage mit schneller Anschlussfähigkeit und verteilter Steuerung und Steuerungsverfahren.  
Commutateur de circuits a connexion rapide et a commande distribuee et procede de controle.

PATENT ASSIGNEE:

AT&T Corp., (589370), 32 Avenue of the Americas, New York, NY 10013-2412, (US), (applicant designated states: BE;DE;FR;GB;IT;NL;SE)

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LEGAL REPRESENTATIVE:

Watts, Christopher Malcolm Kelway, Dr. et al (37392), AT&T (UK) LTD. AT&T Intellectual Property Division 5 Mornington Road, Woodford Green Essex IG8 OTU, (GB)

PATENT (CC, No, Kind, Date): EP 335563 A2 891004 (Basic)  
EP 335563 A3 920527  
EP 335563 B1 950816

APPLICATION (CC, No, Date): EP 89302780 890321;

PRIORITY (CC, No, Date): US 175543 880331; US 175545 880331

DESIGNATED STATES: BE; DE; FR; GB; IT; NL; SE

INTERNATIONAL PATENT CLASS: H04L-012/00 ; H04L-012/54 ; H04L-012/58

CITED PATENTS (EP A): EP 193095 A; EP 210596 A; US 4566007 A; EP 146293 A

ABSTRACT EP 335563 A2

A high capacity metropolitan area network (MAN) is described. Data traffic from users is connected to data concentrators at the edge of the network, and is transmitted over fiber optic data links to a hub where the data is switched. The hub includes a plurality of data switching modules, each having a control means, and each connected to a distributed control space division switch. Advantageously, the data switching modules, whose inputs are connected to the concentrators, perform all checking and routing functions, while the 1024x1024 maximum size space division switch, whose outputs are connected to the concentrators,

provides a large fan-out distribution network for reaching many concentrators from each data switching module. Distributed control of the space division switch permits several million connection and disconnection actions to be performed each second, while the pipelined and parallel operation within the control means permits each of the 256 switching modules to process at least 50,000 transactions per second. The data switching modules chain groups of incoming packets destined for a common outlet of the space division switch so that only one connection in that switch is required for transmitting each group of chained packets from a data switching module to a concentrator. MAN provides security features including a port identification supplied by the data concentrators, and a check that each packet is from an authorized source user, transmitting on a port associated with that user, to an authorized destination user that is in the same group (virtual network) as the source user. Distributed control of the space division switch is implemented by dividing that switch into disjoint sets of connection and switching elements and controlling each such set with a different controller. These controllers communicate via a separate control network with the data switching modules which request circuit connections. (see image in original document)

ABSTRACT WORD COUNT: 306

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 891004 A2 Published application (Alwith Search Report  
;A2without Search Report)  
Examination: 891004 A2 Date of filing of request for examination:  
890406  
Search Report: 920527 A3 Separate publication of the European or  
International search report  
Examination: 940622 A2 Date of despatch of first examination report:  
940504  
\*Assignee: 940622 A2 Applicant (name, address) (change)  
Grant: 950816 B1 Granted patent  
Lapse: 960529 B1 Date of lapse of the European patent in a  
Contracting State: BE 950816  
Oppn None: 960807 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	1244
SPEC A	(English)	EPABF1	37069
Total word count - document A			38313
Total word count - document B			0
Total word count - documents A + B			38313

INTERNATIONAL PATENT CLASS: H04L-012/00 ...

... H04L-012/54 ...

... H04L-012/58

...SPECIFICATION sends acknowledgment responses representing positive acknowledgments if a path has been successfully set up or **disconnected** and negative **acknowledgments** in case of **error** , queue overflow, or if the **requested** outlet is busy.

Brief Description of the Drawing

FIG. 1 is a graphic representation of...

41/5,K/11 (Item 11 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

01105434 \*\*Image available\*\*

TRANSMITTING DATA OVER A GENERAL PACKET RADIO SERVICE WIRELESS NETWORK  
TRANSMISSION DE DONNEES SUR UN RESEAU SANS FIL DE SERVICE GENERAL DE  
RADIOCOMMUNICATION PAR PAQUETS

Patent Applicant/Assignee:

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US, US (Residence), US (Nationality)

Inventor(s):

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CUI Song, 302, No. 21, Ke Yuan Xin Cun, Guan Shen Yuan Road, Shanghai  
200235, CN,

Legal Representative:

TROP Timothy N (agent), Trop, Pruner & Hu, P.C., Suite 100, 8554 Katy  
Freeway, Houston, TX 77024, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200428100 A1 20040401 (WO 0428100)

Application: WO 2003US27788 20030905 (PCT/WO US03027788)

Priority Application: US 2002251269 20020920

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL  
PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM  
ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-012/56

International Patent Class: H04Q-007/22; H04L-012/28

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8681

English Abstract

In a communication system (20), a subscriber unit (30) includes a storage device (125) storing an application program to determine for transmission a current reserved bandwidth and a transmission parameter based on a quality of based on a quality of service profile, and an adapter (130) to communicate data over a wireless network (40) (e.g., a general packet radio service network) that supports a service, satisfying a reliability requirement for the service. The adapter (130) may dynamically adjust the transmission parameter for the transmission before retransmitting one or more packets of data, e.g., at a rate and retransmission times commensurate with the current reserved bandwidth, and the reliability requirement in addition to the a current quality of service profile, ensuring a service level which otherwise cannot be provided by an infrastructure negotiated quality of service, especially in relatively shorter flows of data.

French Abstract

L'invention concerne un systeme (20) de communication dans lequel une unite (30) d'abonnees comprend un dispositif (125) de stockage d'un programme d'application permettant de determiner la transmission d'une largeur de bande reservee et un parametre de transmission base sur une qualite de profil de service, ainsi qu'un adaptateur (130) pour la communication de donnees sur un reseau (40) sans fil (par exemple un reseau de service general de radiocommunication par paquets) supportant un service, satisfaisant une exigence de fiabilite du service. L'adaptateur (130) peut regler de maniere dynamique le parametre de transmission pour la transmission avant de retransmettre un ou plusieurs paquets de donnees, par exemple a une vitesse et un temps de retransmission proportionnes a la largeur de bande reservee, ainsi que l'exigence de fiabilite, en plus de la qualite de profil de service, garantissant un niveau de service ne pouvant autrement pas etre fourni par une qualite de service determinee par l'infrastructure, en particulier dans des flux de donnees relativement plus courts.

Legal Status (Type, Date, Text)

Publication 20040401 A1 With international search report.

Publication 20040401 A1 Before the expiration of the time limit for  
amending the claims and to be republished in the  
event of the receipt of amendments.

Main International Patent Class: **H04L-012/56**

...International Patent Class: **H04L-012/28**

Fulltext Availability:

Detailed Description

Detailed Description

... is, if all the packets are acknowledged or their transmission  
opportunities are exhausted, then the **session terminates**.

At the data sender, any **unacknowledged packets** of data may be  
identified based on the RTCP acknowledgement packet. At block 25 1, such  
stored but **unacknowledged packets** of data may be automatically and  
immediately retransmitted from the sender to the receiver if...

**41/5,K/12** (Item 12 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01004645 \*\*Image available\*\*

**NETWORK LOCATION MANAGEMENT SYSTEM**

**SYSTEME DE GESTION D'EMPLACEMENTS DE RESEAU**

Patent Applicant/Assignee:

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(For all designated states except: US)

Patent Applicant/Inventor:

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HOILE Cefn Richard, 14A Northgate Street, Ipswich, Suffolk IP1 3DB, GB,  
GB (Residence), GB (Nationality), (Designated only for: US)

Legal Representative:

NASH Roger William (agent), BT Group Legal, Intellectual Property  
Department, Holborn Centre, 8th Floor, 120 Holborn, London, Greater  
London EC1N 2TE, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200334669 A1 20030424 (WO 0334669)

Application: WO 2002GB4645 20021011 (PCT/WO GB0204645)

Priority Application: GB 200124927 20011017; GB 200211130 20020515

Designated States: CA US

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

Main International Patent Class: **H04L-012/56**

International Patent Class: H04L-029/12; H04L-029/08

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 21096

English Abstract

In a communications network environment, nodes, such as personal  
computers, are assigned co-ordinates in a co-ordinate space (200) which  
is independent of network address and physical location. Each node (100)  
maintains links to a limited set of other nodes by storing the network  
addresses for those selected nodes. Each stored network address  
represents a link (205) in co-ordinate space (200). It becomes possible  
for any node to obtain the network address for a target node by  
initiating a query message to a node it has the network address for,  
which query message is propagated through the network between nodes which  
have the network address for a next node across co-ordinate space. When a  
receiving node finds it is the target node, or is as close in co-ordinate

space as it is possible to forward the query message, it returns its own network address to the initiating node. Embodiments of the invention can also be used to retrieve information other than network addresses - such as objects.

#### French Abstract

Dans un environnement de reseau de communication, on attribue a des noeuds tels que des ordinateurs personnels des coordonnees dans un espace coordonne (200) qui est independant de l'adresse du reseau ou de son emplacement physique. Chacun des noeuds (100) maintient des liens avec un ensemble limite d'autres noeuds dont il stocke les adresses reseau. Chaque adresse reseau stockee represente une liaison (205) dans un espace coordonne (200). N'importe quel noeud est en mesure d'obtenir l'adresse reseau d'un noeud cible au moyen d'un message d'interrogation adresse a un noeud dont il possede l'adresse reseau, lequel message est emis au sein du reseau entre les noeuds qui possedent l'adresse reseau pour un noeud suivant dans l'espace coordonne. Lorsqu'un noeud recepteur constate qu'il est le noeud cible, ou bien qu'il se trouve suffisamment pret dans l'espace coordonne pour transmettre le message d'interrogation, il renvoie sa propre adresse au noeud de depart. Dans certains modes de realisation, l'invention peut egalement servir a extraire des informations autres que des adresses de reseau, par exemple des objets.

Legal Status (Type, Date, Text)

Publication 20030424 A1 With international search report.

Publication 20030424 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Main International Patent Class: H04L-012/56

Fulltext Availability:

Detailed Description

#### Detailed Description

... of ACK messages received therefrom. If several consecutive messages are sent to a link and **no ACK messages** are received therefrom, the sending node can **delete** the **link** from

41/5,K/13 (Item 13 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00844656 \*\*Image available\*\*

**COMMUNICATION SYSTEM COMPRISING A GATEWAY DEVICE FOR HANDLING CONNECTIONS**  
**SYSTEME DE COMMUNICATION COMPRENANT UNE PASSERELLE SERVANT A GERER DES CONNEXIONS**

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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Legal Representative:

GRILL Matthias (et al) (agent), Tiedtke-Buhling-Kinne, Bavariaring 4, D-80336 Munich, DE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200178331 A1 20011018 (WO 0178331)

Application: WO 2000EP3035 20000405 (PCT/WO EP0003035)

Priority Application: WO 2000EP3035 20000405

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE

DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC

LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK

SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-012/56  
International Patent Class: H04L-012/66  
Publication Language: English  
Filing Language: English  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 5034

#### English Abstract

The invention proposes a system and method for handling a connection in a communication system comprising a gateway device having a gateway and a gateway controller controlling the gateway. The gateway and/or the gateway controller start a timer when sending signals/information to, or receiving signals/information from, the gateway controller or the gateway, respectively, and initiate a process for changing the present status when not receiving an expected signal/message from the other component within a defined time interval. For instance, the gateway will release reserved resources when not receiving, within the defined time interval, a renewed request for reserving resources. Additionally, or alternatively, the gateway controller will release a connection when the gateway does not confirm the reservation within the defined time interval.

#### French Abstract

L'invention concerne un systeme et un procede servant a gerer une connexion dans un systeme de communication comprenant une passerelle composee de la passerelle proprement dite et d'un controleur de passerelle. La passerelle et/ou le controleur de passerelle declenchent un compteur quand ils echangent reciproquement des signaux et des informations et demarrent un processus servant a modifier l'etat actuel quand ils ne recoivent aucun signal ou aucun message attendus de l'autre dispositif dans un intervalle temporel determine. La passerelle liberera, par exemple, des ressources reservees quand elle ne recoit pas, dans cet intervalle temporel determine, une demande renouvelee de reservation de ressources. De plus, ou dans un autre mode de realisation, le controleur de passerelle liberera une connexion quand la passerelle ne confirme pas la reservation dans l'intervalle temporel determine.

#### Legal Status (Type, Date, Text)

Publication 20011018 A1 With international search report.

Examination 20020110 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: H04L-012/56

International Patent Class: H04L-012/66

Fulltext Availability:

Detailed Description

#### Detailed Description

... response,  
that its own state is correct but the connection is faulty, the gateway controller **releases** only the faulty **connection** as stated above. When the gateway 2 does **not respond** at all to the **request** of its state, the gateway controller releases all calls connected to that gateway as indicated...

41/5,K/14 (Item 14 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00483548 \*\*Image available\*\*

COMMUNICATIONS NETWORK

RESEAU DE COMMUNICATION

Patent Applicant/Assignee:

BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY,  
COTTER David,

Inventor(s):

COTTER David,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9914900 A2 19990325

Application: WO 98GB2804 19980916 (PCT/WO GB9802804)

Priority Application: EP 97307224 19970917; EP 97308409 19971022

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD

MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US

UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE

CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN

GW ML MR NE SN TD TG

Main International Patent Class: H04L-012/43

International Patent Class: H04L-012/56 ; H04L-029/06

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 10159

English Abstract

In a communications network, which may be a broadband optical network, a packet is transmitted from a source node to a destination node on a looped signal path. A return signal, which may function as an acknowledgement of the original signal, is transmitted back to the source node from the destination node in the time slot which was occupied by the original packet.

French Abstract

Dans un reseau de communication, qui peut etre optique a large bande, on transmet un paquet d'un noeud source a un noeud cible sur une trajectoire en boucle. Un signal de retour pouvant servir d'accuse de reception du signal original est renvoye au noeud source par le noeud cible dans le creneau de temps occupe par le paquet original.

Main International Patent Class: H04L-012/43

International Patent Class: H04L-012/56 ...

Fulltext Availability:

Detailed Description

Detailed Description

... P to receiver buffer;

if (SOS = 1 in P) or (EOS = 1 in P and **message** received  
**error** -free) then

set **ACK** = 1 in P and allow P to continue along **path**

else **remove** P from network;

end;

if ACK = 1 in P and source address of P = N...

?

File 9:Business & Industry(R) Jul/1994-2004/Jul 15  
(c) 2004 The Gale Group  
File 16:Gale Group PROMT(R) 1990-2004/Jul 16  
(c) 2004 The Gale Group  
File 47:Gale Group Magazine DB(TM) 1959-2004/Jul 16  
(c) 2004 The Gale Group  
File 148:Gale Group Trade & Industry DB 1976-2004/Jul 16  
(c)2004 The Gale Group  
File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 275:Gale Group Computer DB(TM) 1983-2004/Jul 16  
(c) 2004 The Gale Group  
File 570:Gale Group MARS(R) 1984-2004/Jul 16  
(c) 2004 The Gale Group  
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Jul 16  
(c) 2004 The Gale Group  
File 636:Gale Group Newsletter DB(TM) 1987-2004/Jul 16  
(c) 2004 The Gale Group  
File 649:Gale Group Newswire ASAP(TM) 2004/Jul 14  
(c) 2004 The Gale Group

Set	Items	Description
S1	1626960	MESSAGE OR MESSAGES OR MESSAGED OR MESSAGING OR EMESSAG? OR PROBE?? ? OR PROBING? ? OR PROBEPACKET?
S2	29139	PING?? ? OR PINGING
S3	306776	PACKET? ? OR DATAPACKET? ? OR DATAGRAM? OR DATA()GRAM? ?
S4	2605922	TRANSMISSION? OR TRANSMIT?AL? ? OR REQUEST?
S5	4577373	ACKNOWLEDG? OR ANSWER??? ? OR RESPOND? OR RESPONSE? ? OR F-EEDBACK? OR FEED()BACK? ? OR REPLY? OR REPLIE? ? OR ACK? ?
S6	4498	STATELESS OR STATE()LESS
S7	45541	NONRESPONSIVE? OR NONRESPOND? OR UNRESPONSIVE? OR UNRESPON-D? OR UNANSWER? OR UNACKNOWLEDG? OR RESPONSELESS OR ANSWERLESS
S8	129089	(NO OR 'NOT') (1W)S5
S9	4772	(UN OR NON) ()S5
S10	796004	ERROR OR INACTIV? OR IDLE OR DEAD
S11	8903	S10(5N)S5
S12	4578605	CONNECTION? OR SESSION? OR CONNECTIV? OR LINK??? ? OR INTE-RCONNECT? OR INTERLINK?
S13	2610259	PATH? ? OR PATHWAY? OR CHANNEL? ?
S14	86974	DISCONNECT? OR UNCONNECT?
S15	128362	S12:S13(3N) (DELET? OR TERMINAT? OR REMOV??? ? OR DESTROY? -OR ABORT? OR END OR ENDS OR ENDED OR ENDING OR DISCONTINU? OR ELIMINAT?)
S16	56386	S12:S13(3N) (CANCEL??? ? OR CANCEL? OR BREAK??? ? OR CURTA-IL? OR DISRUPT? OR RELEAS? OR PURG??? ? OR ERAS??? ? OR DISEN-GAG?)
S17	17763	S12:S13(3N) (DISASSOCIAT? OR CUT OR CUTS OR CUTTING OR INAC-TIVAT? OR DEACTIVAT? OR NULLIF? OR UNACTIVAT?)
S18	705	(S6:S9 OR S11) (S)S14:S17
S19	10065	S1:S4(5N) (S6:S9 OR S11)
S20	49	S18(S)S19
S21	4	S20/2002:2004
S22	45	S20 NOT S21
S23	29	RD (unique items)
S24	160776	FIREWALL? OR FIRE()WALL? ?
S25	8	S18(S)S24
S26	0	S25/2002:2004
S27	8	S25 NOT S20
S28	6	RD (unique items)
S29	3629550	TABLE OR TABLES OR DATABASE? OR DATASET? OR DATABANK? OR D-ATAFILE? OR DB OR DATA() (BASE? ? OR SET? ? OR BANK? ? OR FILE?

?)

S30	4886	S14:S17(5N) (S29 OR FILE OR FILES)
S31	13	S18(S)S30
S32	0	S31/2002:2004
S33	13	S31 NOT (S20 OR S25)
S34	6	RD (unique items)
?		

23/3,K/14 (Item 6 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

04051944 SUPPLIER NUMBER: 15056001 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**LANsurveyor: Neon Software puts easy network troubleshooting on the map.**  
(Software Review) (New on the Menu: Reviews ) (Evaluation)  
Wiseth, Kelli  
MacUser, v10, n5, p50(1)  
May, 1994  
DOCUMENT TYPE: Evaluation ISSN: 0884-0997 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 613 LINE COUNT: 00052

...ABSTRACT: for polling, which sends echo packets to selected devices and sounds an alert if a **packet** does **not answer**, or monitoring, which gathers Simple Network Management Protocol (SNMP) traffic statistics. LANsurveyor is an excellent...

...and administration tool and is ideal for tracking down broken cables, faulty network boards and **disconnections**.

23/3,K/16 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

11568517 SUPPLIER NUMBER: 57801298 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The Chrysler Engine Management System.**  
Ripple, Roy  
Motor Age, 118, 11, 30  
Nov, 1999  
ISSN: 0193-7022 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 2518 LINE COUNT: 00192

... the scanner have the capability to communicate. Common problems associated with "No Modules Responding," are **disconnected** modules or loss of battery power or ground.

Bus is inactive  
This message means that...

23/3,K/17 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

07755594 SUPPLIER NUMBER: 16761445 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Network conference explores accelerated data movement. (Silicon Valley Networking Conference)**  
Bursky, Dave  
Electronic Design, v43, n5, p57(4)  
March 6, 1995  
ISSN: 0013-4872 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1688 LINE COUNT: 00135

... the standard transmission control protocol/Internet protocol (TCP/IP). The UDP does not require return **messages** for the Acknowledge/**Non - acknowledge** signals and wind-down control.

New standards such as the user network interface (UNI) 4...

**23/3,K/25 (Item 4 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

01584263 SUPPLIER NUMBER: 13400616 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The backbone war. (IBM Advanced Peer-to-Peer Networking)**  
Pedersen, Elinor  
MIDRANGE Systems, v6, n3, p34(2)  
Feb 9, 1993  
ISSN: 1041-8237 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1199 LINE COUNT: 00094

... packet, and then the packet is sent. There is no time spent setting up and **terminating connections**, and routes easily can be recalculated at each hop in a multihop path, but there also is no guarantee that **packets** have arrived. If there is **no acknowledgement** after a suitable time, the sender just retransmits. In the traditional implementation, no flowcontrol is...  
? t23/3,k/26-27

**23/3,K/26 (Item 5 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

01525657 SUPPLIER NUMBER: 12340664 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Client-server computing: time shared computing. (includes related article about named pipes) (Technical)**  
Sinha, Alok  
Communications of the ACM, v35, n7, p77(22)  
July, 1992  
DOCUMENT TYPE: Technical ISSN: 0001-0782 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 13119 LINE COUNT: 01077

... data. Applications sending SPX packets form SPX connections with destination applications, and SPX retransmits any **unacknowledged packets** after appropriate timeout intervals. After a certain number of unacknowledged retransmissions, SPX assumes that destination application is no longer listening and **breaks the connection** [15].  
Applications communicate with one another, using either an IPX or SPX programming interface. Prior...

**23/3,K/27 (Item 6 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

01213550 SUPPLIER NUMBER: 05107109 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**LAN hardware standards.**  
Krumrey, Art; Kolman, John  
PC Tech Journal, v5, n6, p54(9)  
June, 1987  
ISSN: 0738-0194 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 6631 LINE COUNT: 00522

... layers about the results of one or more previous requests.  
For connectionless services LLC processes **requests** for **unacknowledged** connectionless data transfer. For connection-oriented services, requests are processed for connection establishment,

connection-oriented data transfer, **connection termination** , **connection**  
reset, and **connection** flow control.

#### HARDWARE STRATEGIES

Dozens of companies manufacture LAN hardware that adheres to one of

...  
?

? t34/3,k/1,5-6

**34/3,K/1** (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

07189435 Supplier Number: 61382899 (USE FORMAT 7 FOR FULLTEXT)  
**RADWARE Announces Robust New Features For Its Web Server Director Product Line.**  
PR Newswire, p6516  
April 7, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1066

*duplicate*

... TCP session under the impression that the session is from a real client; however, since **no final acknowledgment** is received from the client indicating that the session is fully open, server resources are...

...taking the necessary steps to remedy the situation. First, the WSD can protect its own **session table** by quickly **removing** the invalid **sessions**. Second, if a server's operating system is not capable of protecting itself, the WSD can quickly **terminate** the half-open **sessions** on the server, freeing server resources.

About RADWARE

RADWARE develops, manufacturers and markets products that...

**34/3,K/5** (Item 5 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

05079105 Supplier Number: 47455879  
**BEA Systems bridges gap**  
New Zealand Herald, pD8  
June 10, 1997  
Language: English Record Type: Abstract  
Document Type: Magazine/Journal; Trade

ABSTRACT:

...on the server and permits Web clients for application reconnection and transaction completion despite encountering **disconnection**. The software addresses transaction processing application problems to the Web's **stateless** environment via a downloadable Java applet and transaction protocol. An open virtual connection held by Jolt informs Tuxedo to save the transaction in a log **file**. Upon any **disconnection**, Tuxedo will restore the transaction back to where the user last logged off. This ensures...

**34/3,K/6** (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

01328292 Supplier Number: 41558784 (USE FORMAT 7 FOR FULLTEXT)  
**EIS INTRODUCES CALL PROCESSING SYSTEM FOR CROSS SELLING AND TELEMARKETING**  
Branch Automation News, v2, n19, pN/A  
Sept 19, 1990  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade

Word Count: 711

... then sends this information back to the Call Manager. In the case of a "ring, **no answer** ," the Call Manager can reschedule that number to be called again 2 hours later. If it is busy, the Call Manager can reschedule it for 7 minutes later. **Disconnected** numbers are deleted from the **database** .

In the case of an answered call, the processor determines the "hello," in less than...

File 6:NTIS 1964-2004/Jul W3  
(c) 2004 NTIS, Intl Cpyrght All Rights Res  
File 2:INSPEC 1969-2004/Jul W1  
(c) 2004 Institution of Electrical Engineers  
File 8:EI Compendex(R) 1970-2004/Jul W1  
(c) 2004 Elsevier Eng. Info. Inc.  
File 256:SoftBase:Reviews,Companies&Prods. 82-2004/Jun  
(c)2004 Info.Sources Inc  
File 34:SciSearch(R) Cited Ref Sci 1990-2004/Jul W2  
(c) 2004 Inst for Sci Info  
File 35:Dissertation Abs Online 1861-2004/May  
(c) 2004 ProQuest Info&Learning  
File 65:Inside Conferences 1993-2004/Jul W2  
(c) 2004 BLDSC all rts. reserv.  
File 94:JICST-EPlus 1985-2004/Jun W4  
(c)2004 Japan Science and Tech Corp(JST)  
File 95:TEME-Technology & Management 1989-2004/Jun W1  
(c) 2004 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Jun  
(c) 2004 The HW Wilson Co.  
File 111:TGG Natl.Newspaper Index(SM) 1979-2004/Jul 15  
(c) 2004 The Gale Group  
File 144:Pascal 1973-2004/Jul W1  
(c) 2004 INIST/CNRS  
File 202:Info. Sci. & Tech. Abs. 1966-2004/Jul 12  
(c) 2004 EBSCO Publishing  
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep  
(c) 2003 EBSCO Pub.  
File 266:FEDRIP 2004/May  
Comp & dist by NTIS, Intl Copyright All Rights Res  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
File 483:Newspaper Abs Daily 1986-2004/Jul 15  
(c) 2004 ProQuest Info&Learning  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 603:Newspaper Abstracts 1984-1988  
(c)2001 ProQuest Info&Learning

Set	Items	Description
S1	1082543	MESSAGE OR MESSAGES OR MESSAGED OR MESSAGING OR EMESSAG? OR PROBE?? ? OR PROBING? ? OR PROBEPACKET?
S2	7749	PING?? ? OR PINGING
S3	162824	PACKET? ? OR DATAPACKET? ? OR DATAGRAM? OR DATA()GRAM? ?
S4	1882421	TRANSMISSION? OR TRANSMIT?AL? ? OR REQUEST?
S5	4153791	ACKNOWLEDG? OR ANSWER??? ? OR RESPOND? OR RESPONSE? ? OR FEEDBACK? OR FEED()BACK? ? OR REPLY? OR REPLIE? ? OR ACK? ?
S6	1379	STATELESS OR STATE()LESS
S7	37116	NONRESPONSIVE? OR NONRESPOND? OR UNRESPONSIVE? OR UNRESPON- D? OR UNANSWER? OR UNACKNOWLEDG? OR RESPONSELESS OR ANSWERLESS
S8	54399	(NO OR 'NOT') (1W)S5
S9	8282	(UN OR NON)()S5
S10	1331033	ERROR OR INACTIV? OR IDLE OR DEAD
S11	21652	S10(5N)S5
S12	2446976	CONNECTION? OR SESSION? OR CONNECTIV? OR LINK??? ? OR INTERCONNECT? OR INTERLINK?
S13	2316557	PATH? ? OR PATHWAY? OR CHANNEL? ?
S14	30423	DISCONNECT? OR UNCONNECT?
S15	46003	S12:S13(3N) (DELET? OR TERMINAT? OR REMOV??? ? OR DESTROY? - OR ABORT? OR END OR ENDS OR ENDED OR ENDING OR DISCONTINU? OR ELIMINAT?)

S16 36433 S12:S13(3N) (CANCEL??? ? OR CANCEL? OR BREAK??? ? OR CURTAIL? OR DISRUPT? OR RELEAS? OR PURG??? ? OR ERAS??? ? OR DISENGAG?)

S17 15265 S12:S13(3N) (DISASSOCIAT? OR CUT OR CUTS OR CUTTING OR INACTIVAT? OR DEACTIVAT? OR NULLIF? OR UNACTIVAT?)

S18 11890 FIREWALL? OR FIRE()WALL? ?

S19 1815688 TABLE OR TABLES OR DATABASE? OR DATASET? OR DATABANK? OR DATAFILE? OR DB OR DATA() (BASE? ? OR SET? ? OR BANK? ? OR FILE?)

S20 692 (S6:S9 OR S11) AND S14:S17

S21 1615 S1:S4(5N) (S6:S9 OR S11)

S22 31 S20 AND S21

S23 0 S20 AND S18

S24 657 S14:S17(5N) (S19 OR FILE OR FILES)

S25 5 S20 AND S24

S26 34 S22 OR S25

S27 5 S26/2002:2004

S28 29 S26 NOT S27

S29 20 RD (unique items)

29/7/1 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6938739 INSPEC Abstract Number: B2001-07-6250F-067

**Title: Hierarchical cache design for enhancing TCP over heterogeneous networks with wired and wireless links**

Author(s): Jian-Hao Hu; Yeung, K.L.; Siew Chee Kheong; Gang Feng

Author Affiliation: Dept. of Electr. & Electron. Eng., Hong Kong Univ., China

Conference Title: Globecom '00 - IEEE. Global Telecommunications Conference. Conference Record (Cat. No.00CH37137) Part vol.1 p.338-43 vol.1

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2000 Country of Publication: USA 3 vol. xlvii+1898 pp.

ISBN: 0 7803 6451 1 Material Identity Number: XX-2000-01111

U.S. Copyright Clearance Center Code: 0 7803 6451 1/2000/\$10.00

Conference Title: Proceedings of Global Telecommunications Conference

Conference Date: 27 Nov.-1 Dec. 2000 Conference Location: San Francisco, CA, USA

Medium: Also available on CD-ROM in PDF format

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T)

**Abstract:** In this paper, we propose a two-layer hierarchical cache architecture for enhancing TCP performance over heterogeneous networks with both wired and wireless links. A new network-layer protocol, called New Snoop, is designed. The main idea is to cache the **unacknowledged packets** at both the mobile switch center (MSC) and base station (BS), thus forming a two-layer cache hierarchy. If a packet is lost due to transmission errors in the wireless link, the BS takes the responsibility to recover the loss. When a handoff occurs during a TCP connection session, the packets cached in MSC can help to minimize the latency of retransmissions due to temporal **disconnection**. Simulation results show that using New Snoop is significantly more robust in dealing with unreliable wireless links and handoffs as compared with the Snoop scheme (Balakrishnan et al. 1995) as well as other existing TCP enhancements. (5 Refs)

Subfile: B

Copyright 2001, IEE

29/7/9 (Item 1 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

05785456 E.I. No: EIP01025533006

**Title: Hierarchical cache design for enhancing TCP over heterogeneous networks with wired and wireless links**

Author: Hu, Jian-Hao; Yeung, Kwan L.; Kheong, Siew Chee; Feng, Gang  
Corporate Source: Univ of Hong Kong, Hong Kong, China  
Conference Title: IEEE Global Telecommunication Conference (GLOBECOM'00)  
Conference Location: San Francisco, CA, USA  
Source: Conference Record / IEEE Global Telecommunications Conference v 1  
2000. IEEE, Piscataway, NJ, USA, 00CB37137. p 338-343  
Publication Year: 2000

CODEN: CRIEET

Language: English

Document Type: CA; (Conference Article) Treatment: T; (Theoretical)

Journal Announcement: 0103W3

Abstract: In this paper, we propose a two-layer hierarchical cache architecture for enhancing TCP performance over heterogeneous networks with both wired and wireless links. A new network-layer protocol, called New Snoop, is designed. The main idea is to cache the **unacknowledged packets** at both Mobile Switch Center (MSC) and Base Station (BS), thus forming a two-layer cache hierarchy. If a packet is lost due to transmission errors in wireless link, the BS takes the responsibility to recover the loss. When a handoff occurs during a TCP connection session, the packets cached in MSC can help to minimize the latency of retransmissions due to temporal **disconnection**. Simulation results show that using New Snoop is significantly more robust in dealing with unreliable wireless links and handoffs as compared with the Snoop scheme as well as other existing TCP enhancements. (Author abstract) 5 Refs.

29/7/15 (Item 1 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
(c) 2004 FIZ TECHNIK. All rts. reserv.

00692013 I93068506928

**Titel japanisch**

(Ein Verfahren, einen Pfad in einem Rechnernetz zu beschreiben)

(A route status reporting method in a computer network)

Miyazaki, S; Terada, M; Kohyama, S; Kawatobi, T

Hitachi Ltd., Tokyo, Japan

Transactions of Information Processing Society of Japan, v33, n11,  
pp1423-1430, 1992

Document type: journal article Language: Japanese

Record type: Abstract

ABSTRACT:

Discusses finite state machines for the proposed method (for end nodes sending or receiving control messages and for an intermediate node); control messages for the proposed methods; inputs, actions and states of the finite state machines; actions in the proposed method and in the **stateless** method (when all **links** are **deactivated**, and when individual **links** are activated); a route model for one direction; a reachability graph when a route model consists of two end nodes (for the cases where activation and deactivation occur, and where no successive activation and deactivation occur); and a reachability graph when a route model consists of two end nodes and n intermediate nodes.

29/7/20 (Item 1 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

06482712  
BEA Systems bridges gap  
NEW ZEALAND: NEW JOLT SOFTWARE FROM BEA SYSTEMS  
New Zealand Herald (XAV) 10 Jun 1997 P.D8  
Language: ENGLISH

The new Jolt software has been launched by BEA Systems in New Zealand. Jolt is BEA System's Web front-end software that accompanies the company's transaction-processing middleware product Tuxedo. Jolt sustains the in-process transactions on the server and permits Web clients for application reconnection and transaction completion despite encountering **disconnection**. The software addresses transaction processing application problems to the Web's **stateless** environment via a downloadable Java applet and transaction protocol. An open virtual connection held by Jolt informs Tuxedo to save the transaction in a log **file**. Upon any **disconnection**, Tuxedo will restore the transaction back to where the user last logged off. This ensures that businesses can extend their current business programmes to users on Unix, mainframe or NT systems across the Internet or intranets through simple Java applets.  
?

File 347:JAPIO Nov 1976-2004/Mar(Updated 040708)  
 (c) 2004 JPO & JAPIO  
 File 350:Derwent WPIX 1963-2004/UD,UM &UP=200444  
 (c) 2004 Thomson Derwent  
 File 348:EUROPEAN PATENTS 1978-2004/Jul W01  
 (c) 2004 European Patent Office  
 File 349:PCT FULLTEXT 1979-2002/UB=20040708,UT=20040701  
 (c) 2004 WIPO/Univentio

Set	Items	Description
S1	1	AU='FRANTZEN M'
S2	3	AU='FRANTZEN M T':AU='FRANTZEN MICHAEL'
S3	0	AU='BALLMAN D'
S4	1	AU='DANIELSON W'
S5	2	AU='DANIELSON W R':AU='DANIELSON WILLIAM'
S6	6	S1:S5
S7	267618	PROBE?? ? OR PROBING
S8	0	S6 AND S7
S9	1	S1:S2 AND S3:S5
S10	8846	FIRE()WALL? ? OR FIREWALL?
S11	3	S6 AND S10
S12	3	S9 OR S11

12/9/1 (Item 1 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2004 Thomson Derwent. All rts. reserv.

015030403 \*\*Image available\*\*  
 WPI Acc No: 2003-090920/200308  
 XRPX Acc No: N03-071867

**Network connection management method for telnet applications, involves using firewall to determine active and inactive states of network connection in order to delete connection in inactive state**  
 Patent Assignee: BALLMAN D E (BALL-I); DANIELSON W R (DANI-I); FRANTZEN M T (FRAN-I)

Inventor: BALLMAN D E; DANIELSON W R ; FRANTZEN M T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020138627	A1	20020926	US 2001817630	A	20010326	200308 B

Priority Applications (No Type Date): US 2001817630 A 20010326

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020138627	A1		8 G06F-015/173	

US 20020138627 A1

Abstract (Basic): US 20020138627 A1

NOVELTY - The active and inactive states of a network connection is automatically determined by a **firewall** in the network configuration. The state of the network connection is deleted when the connection is inactive for a predetermined time period.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) Computer readable media storing network connection management program;

(2) **Firewall** configured for managing network connection; and

(3) Computer system for storing and executing network connection management program.

USE - For telnet applications and for providing network security with respect to company's asset.

ADVANTAGE - **Firewall** automatically identifies active persistent network and keeps the connections alive, thus the **firewall** prevents deletion of persistent network connection, when an active connection is determined.

DESCRIPTION OF DRAWING(S) - The figure shows the operation of the inventive **firewall** .

pp; 8 DwgNo 3/3

Title Terms: NETWORK; CONNECT; MANAGEMENT; METHOD; APPLY; **FIREWALL** ;  
DETERMINE; ACTIVE; INACTIVE; STATE; NETWORK; CONNECT; ORDER; DELETE;  
CONNECT; INACTIVE; STATE

Derwent Class: T01; W01

International Patent Class (Main): G06F-015/173

File Segment: EPI

Manual Codes (EPI/S-X): T01-N02B1; T01-S03; W01-A03B; W01-A06G2; W01-A06G5E

12/TI/2 (Item 2 from file: 350)

DIALOG(R)File 350:(c) 2004 Thomson Derwent. All rts. reserv.

Data packet filtering for computer network interface between protected or private network and public network - passing packets with or without alteration of data or dropping same depending on filtering result, and sending packets to host on proxy network that performs some or all of functions of intended destination host

12/TI/3 (Item 1 from file: 348)

DIALOG(R)File 348:(c) 2004 European Patent Office. All rts. reserv.

System for packet filtering of data packets at a computer network interface

File 347:JAPIO Nov 1976-2004/Mar(Updated 040708)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200444

(c) 2004 Thomson Derwent

Set	Items	Description
S1	242801	MESSAGE OR MESSAGES OR MESSAGED OR MESSAGING OR EMESSAG? OR PROBE?? ? OR PROBING? ? OR PROBEPACKET?
S2	1084	PING?? ? OR PINGING
S3	71770	PACKET? ? OR DATAPACKET? ? OR DATAGRAM? OR DATA()GRAM? ?
S4	1267928	TRANSMISSION? OR TRANSMIT?AL? ? OR REQUEST?
S5	665347	ACKNOWLEDG? OR ANSWER??? ? OR RESPOND? OR RESPONSE? ? OR F-EEDBACK? OR FEED()BACK? ? OR REPLY? OR REPLIE? ? OR ACK? ?
S6	229	STATELESS OR STATE()LESS
S7	736	NONRESPONSIVE? OR NONRESPOND? OR UNRESPONSIVE? OR UNRESPOND? OR UNANSWER? OR UNACKNOWLEDG? OR RESPONSELESS OR ANSWERLESS
S8	6971	(NO OR 'NOT') (1W)S5
S9	703	(UN OR NON)()S5
S10	401822	ERROR OR INACTIV? OR IDLE OR DEAD
S11	7549	S10(5N)S5
S12	1396068	CONNECTION? OR SESSION? OR CONNECTIV? OR LINK??? ? OR INTERCONNECT? OR INTERLINK?
S13	1048982	PATH? ? OR PATHWAY? OR CHANNEL? ?
S14	118883	DISCONNECT? OR UNCONNECT?
S15	111742	S12:S13(3N) (DELET? OR TERMINAT? OR REMOV??? ? OR DESTROY? - OR ABORT? OR END OR ENDS OR ENDED OR ENDING OR DISCONTINU? OR ELIMINAT?)
S16	26028	S12:S13(3N) (CANCEL??? ? OR CANCELL? OR BREAK??? ? OR CURTAIL? OR DISRUPT? OR RELEAS? OR PURG??? ? OR ERAS??? ? OR DISENGAG?)
S17	13689	S12:S13(3N) (DISASSOCIAT? OR CUT OR CUTS OR CUTTING OR INACTIVAT? OR DEACTIVAT? OR NULLIF? OR UNACTIVAT?)
S18	2089	FIREWALL? OR FIRE()WALL? ?
S19	495820	TABLE OR TABLES OR DATABASE? OR DATASET? OR DATABANK? OR DATAFILE? OR DB OR DATA() (BASE? ? OR SET? ? OR BANK? ? OR FILE? ?)
S20	490	(S6:S9 OR S11) AND S14:S17
S21	1311	S1:S4(5N) (S6:S9 OR S11)
S22	53	S20 AND S21
S23	0	S20 AND S18
S24	819	S14:S17(5N) (S19 OR FILE OR FILES)
S25	5	S20 AND S24
S26	279559	IC='G06F-015'
S27	150716	IC='H04L-012'
S28	7571	MC='T01-N02B1'
S29	14	S22 AND S26:S28
S30	29664	MC='W01-A03B'
S31	38337	MC='W01-A06G2'
S32	1111	MC='W01-A06G5E'
S33	12660	MC='W01-A06X'
S34	19415	MC='W01-A06E1'
S35	16	S20 AND S30:S34
S36	19	S25 OR S29 OR S25
S37	19	IDPAT (sorted in duplicate/non-duplicate order)
S38	19	IDPAT (primary/non-duplicate records only)
S39	12	S35 NOT S38
S40	37	S22 NOT (S38 OR S39)
S41	49	S39:S40
S42	49	IDPAT (sorted in duplicate/non-duplicate order)
S43	48	IDPAT (primary/non-duplicate records only)

?t38/9/1-2,4-5,7-9,12

38/9/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015297698 \*\*Image available\*\*  
WPI Acc No: 2003-358632/200334  
Related WPI\Acc No: 2003-323700  
XRPX Acc No: N03-286650

Link disconnection method through Ethernet involves transmitting codes that are not defined in code conversion table , so as to disconnect link between communication apparatus

Patent Assignee: ALLIED TERRACES KK (ALTE-N)  
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003087276	A	20030320	JP 2001277649	A	20010913	200334 B

Priority Applications (No Type Date): JP 2001277649 A 20010913

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2003087276	A	6	H04L-012/40	

Abstract (Basic): JP 2003087276 A

NOVELTY - The communication apparatuses (20,30) are connected to media converter (10) based on Ethernet specification. A 10-bit code which is not defined in 8B/10B code conversion table , is transmitted continuously to **disconnect** the link between communication apparatus.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) media converter;
- (2) link **disconnection** control system; and
- (3) link **disconnection** control program.

USE - For **disconnecting** link between communication apparatus through Ethernet used for exchanging music, moving image, etc.

ADVANTAGE - Even if the apparatus does **not responds** to remote fault function, link **disconnection** is performed reliably.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of gigabit Ethernet using media converter. (Drawing includes non-English language text).

media converter (10)  
communication apparatuses (20,30)  
pp; 6 DwgNo 1/3

Technology Focus:

TECHNOLOGY FOCUS - INDUSTRIAL STANDARDS - The Ethernet specification conforms to IEEE802.3z..

Title Terms: LINK; **DISCONNECT** ; METHOD; THROUGH; TRANSMIT; CODE; DEFINE; CODE ; CONVERT; TABLE; SO; **DISCONNECT** ; LINK; COMMUNICATE; APPARATUS

Derwent Class: T01; W01

International Patent Class (Main): H04L-012/40

International Patent Class (Additional): H04B-010/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-C03A; T01-N01D1; W01-A06F1A; W01-C05B2

38/9/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015069757 \*\*Image available\*\*  
WPI Acc No: 2003-130273/200312  
XRPX Acc No: N03-103498

Fault-tolerant connection test arrangement sends test message, checks for data loss in node during test if response faulty; connection termination is not triggered if data loss detected

Patent Assignee: SIEMENS AG (SIEI )

Inventor: SPIES J; WUTTKE B

Number of Countries: 022 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200305688	A2	20030116	WO 2002DE1851	A	20020522	200312	B
DE 10131533	A1	20030123	DE 1031533	A	20010629	200316	
DE 10131533	C2	20030710	DE 1031533	A	20010629	200347	
EP 1400063	A2	20040324	EP 2002740368	A	20020522	200421	
			WO 2002DE1851	A	20020522		

Priority Applications (No Type Date): DE 1031533 A 20010629

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200305688	A2	G	13	H04M-003/00	
Designated States (National): CN US					
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR					
DE 10131533	A1			H04L-012/26	
DE 10131533	C2			H04L-012/26	
EP 1400063	A2	G		H04L-012/26	Based on patent WO 200305688
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR					

Abstract (Basic): WO 2003005688 A2

NOVELTY - The arrangement sends test messages to a B-node, receives a response from the B-node, assesses the communications connection to the B-node based on the received response and triggers communications **connection termination** if the assessment gives a negative result. If there is an **error** in the **response** a check is made as to whether a data loss occurred in the node during the test. **Connection termination** is not triggered if a data loss is detected.

DETAILED DESCRIPTION - The arrangement has a transmitter unit for sending test messages to a B-node, a receiver unit for receiving a response from the B-node and a control unit for assessing the communications connection to the B-node based on the received response and triggering the **termination** of the communications **connection** to the B-node if the assessment gives a negative result. If there is an **error** in the **response** to the test **message** a check is made as to whether a data loss has occurred in the node during the test and the **connection termination** is not triggered if a data loss is detected. AN INDEPENDENT CLAIM is also included for the following: a test method in a node of a communications network for testing communications connections to other nodes.

USE - For testing communications connections to other nodes of a communications network.

ADVANTAGE - Enables the availability of the tested communications connections to be increased.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram representation of an inventive arrangement

receiver/transmitter unit (1)  
buffer memory (2)  
central control unit (3)  
non-volatile memory (4)  
further control unit (5)  
pp; 13 DwgNo 1/1

Title Terms: FAULT; TOLERATE; CONNECT; TEST; ARRANGE; SEND; TEST; MESSAGE; CHECK; DATA; LOSS; NODE; TEST; RESPOND; FAULT; CONNECT; TERMINATE; TRIGGER; DATA; LOSS; DETECT

Derwent Class: W01

International Patent Class (Main): H04L-012/26 ; H04M-003/00

International Patent Class (Additional): H04M-003/26; H04Q-003/00

File Segment: EPI

Manual Codes (EPI/S-X): W01-A01C5; W01-A06A2; W01-A06E

38/9/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013815844 \*\*Image available\*\*

WPI Acc No: 2001-300056/200131

XRPX Acc No: N01-215315

**Error control method in data packet transmission channel in cellular network, involves changing transmission rate of acknowledged message in response to estimated transmission quality of transmission channel**  
Patent Assignee: NOKIA NETWORKS OY (OYNO ); NOKIA OY (OYNO ); NOKIA CORP (OYNO )

Inventor: GROENBERG P; RAJALA J

Number of Countries: 088 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200122645	A1	20010329	WO 99EP6952	A	19990920	200131 B
AU 9963279	A	20010424	AU 9963279	A	19990920	200141
			WO 99EP6952	A	19990920	
EP 1214810	A1	20020619	EP 99950529	A	19990920	200240
			WO 99EP6952	A	19990920	
CN 1367964	A	20020904	CN 99816909	A	19990920	200281
			WO 99EP6952	A	19990920	

Priority Applications (No Type Date): WO 99EP6952 A 19990920

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200122645 A1 E 33 H04L-001/18

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 9963279 A H04L-001/18 Based on patent WO 200122645

EP 1214810 A1 E H04L-001/18 Based on patent WO 200122645

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

CN 1367964 A H04L-001/18

Abstract (Basic): WO 200122645 A1

NOVELTY - A transmit window is defined based on sequence number of **unacknowledged** data unit. **Transmission** of data unit is allowed only if the sequence number of data unit lies within the transmit window. Transmission quality is estimated and the transmission rate of acknowledged message is changed, based on estimated transmission quality of transmission channel.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for error control apparatus.

USE - Cellular network e.g. global system for mobile communication (GSM), general packet radio services (GPRS) utilizing packet data transmission.

ADVANTAGE - Receiver decides on the transmission timing of acknowledgments and is able to count the data units lost or **erased** during transmission. **Channel** quality is determined by the detecting retransmission of negatively acknowledged data unit.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of error control apparatus.

pp; 33 DwgNo 1/4

Title Terms: ERROR; CONTROL; METHOD; DATA; PACKET; TRANSMISSION; CHANNEL; CELLULAR; NETWORK; CHANGE; TRANSMISSION; RATE; ACKNOWLEDGE; MESSAGE; RESPOND ; ESTIMATE; TRANSMISSION; QUALITY; TRANSMISSION; CHANNEL

Derwent Class: W01; W02

International Patent Class (Main): H04L-001/18

International Patent Class (Additional): H04L-001/00; H04L-001/16;

**H04L-012/56**

File Segment: EPI

Manual Codes (EPI/S-X): W01-A01A; W01-A03B; W01-A06G2; W01-A07G1; W01-B05A1A; W02-C03C1A; W02-K03

.\DIALOG(R)File 350:Derwent WPIX  
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013462626 \*\*Image available\*\*

WPI Acc No: 2000-634569/200061

XRPX Acc No: N00-470588

**Radio communication equipment for mobile communication, measures quantitative communication quality value of transmission path based on which waiting time-out time is setup on detection of non - responding condition**

Patent Assignee: TOSHIBA KK (TOKE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000261496	A	20000922	JP 9956886	A	19990304	200061 B

Priority Applications (No Type Date): JP 9956886 A 19990304

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000261496	A	15	H04L-012/56	

Abstract (Basic): JP 2000261496 A

NOVELTY - A controller (4) controls the wireless information transmission between radio equipment based on preset transmission procedure. A measurement unit (5) measures the quantitative communication quality value of **transmission** path. When controller detects **non - response** , waiting time-out time setting device (8c) sets a variable time, based on quality value to stipulate transmission procedure.

DETAILED DESCRIPTION - The quality measurement unit measures error rates of input signal strength, interference wave receiving strength, noise receiving strength and receiving data as communication quality value.

USE - Used in radio base station for mobile-radio communication systems.

ADVANTAGE - Communication can be always enabled efficiently, irrespective of communication quality of various wireless-transmission paths. Even when communication quality reduces, the equipment performs continuation or **cutting** of a **connection** appropriately.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram showing the principal part component of the radio communication equipment.

Control unit (4)

Communication quality measurement device (5)

Waiting timeout time setting device (8c)

pp; 15 DwgNo 1/10

Title Terms: RADIO; COMMUNICATE; EQUIPMENT; MOBILE; COMMUNICATE; MEASURE;

QUANTITATIVE; COMMUNICATE; QUALITY; VALUE; TRANSMISSION; PATH; BASED; WAIT;

TIME; TIME; DETECT; NON; RESPOND; CONDITION

Derwent Class: W01; W02

International Patent Class (Main): **H04L-012/56**

International Patent Class (Additional): H04B-007/24; H04L-029/02

File Segment: EPI

Manual Codes (EPI/S-X): W01-A03B; W01-A06G2; W01-A07F; W02-C03D

38/9/7 (Item 7 from file: 350)

.\DIALOG(R)File 350:Derwent WPIX

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012833885 \*\*Image available\*\*

WPI Acc No: 2000-005717/200001

XRPX Acc No: N00-005160

**Radio communication apparatus - has call controller which disconnects call circuit connection, when detected sub address from call connection information recorded in memory conforms with comparison result**

Patent Assignee: KYOCERA CORP (KYOC )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11284724	A	19991015	JP 9886306	A	19980331	200001 B

Priority Applications (No Type Date): JP 9886306 A 19980331

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11284724	A		6	H04M-001/66	

Abstract (Basic): JP 11284724 A

NOVELTY - Comparator (9) discriminates the call number recorded in a memory (3) with the call number registered in a call **disconnection table** (8). A call controller (1) **disconnects** the call circuit connection, when the detected sub address from call connection information recorded in a memory (5) conforms with the comparison result.

USE - None given.

ADVANTAGE - **Eliminates** circuit **connection** of wasteful call since judgement is performed whether to accept or send a message to the calling party. Utilizes signal effectively by **disconnecting** a call when **no response** from the called party is recognized in the calling side and maintaining call circuit connection even if message data are transmitted.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the radio communication apparatus. (1) Call controller; (3) Memory; (5) Memory; (8) Call **disconnection table**; (9) Comparator.

Dwg.1/3

Title Terms: RADIO; COMMUNICATE; APPARATUS; CALL; CONTROL; **DISCONNECT**; CALL; CIRCUIT; CONNECT; DETECT; SUB; ADDRESS; CALL; CONNECT; INFORMATION; RECORD; MEMORY; CONFORM; COMPARE; RESULT

Derwent Class: W01

International Patent Class (Main): H04M-001/66

International Patent Class (Additional): H04M-001/00

File Segment: EPI

Manual Codes (EPI/S-X): W01-C01; W01-C01F5

38/9/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011956671 \*\*Image available\*\*

WPI Acc No: 1998-373581/199832

XRPX Acc No: N98-293226

**Terminal station monitoring system - transmits polling request frame from monitoring station to terminal station**

Patent Assignee: MEIDENSHA CORP (MEID )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10150458	A	19980602	JP 96307583	A	19961119	199832 B

Priority Applications (No Type Date): JP 96307583 A 19961119

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 10150458	A		5	H04L-012/42	

Abstract (Basic): JP 10150458 A

The system has several terminal stations (2) connected in the form of a loop. Several monitoring stations (1) are installed in the loop. A polling request frame is transmitted from the monitoring station to one terminal station. When **no response** is received, the polling request is transmitted again. Further when **no response** is received, the terminal station is stored as an abnormal candidate station and the polling is moved to the second terminal station. The polling for all the terminal station is carried out similarly.

During the turn of the abnormal candidate station, a polling is newly retransmitted to the abnormal candidate station and the abnormal station confirmation is performed only once. When **no response** is received, the same process is repeated in the cycle of the following polling. When **no response** is received for 'N' number of times, then the terminal station is considered as abnormal and the cycle of polling is ruled out.

ADVANTAGE - Prevents mistaking of terminal station to be abnormal when

transfer of polling is not possible due to temporary failure of transmission lines such as noise, **disconnection** . Maintains polling performance.

Dwg.2/2

Title Terms: TERMINAL; STATION; MONITOR; SYSTEM; TRANSMIT; POLL; REQUEST; FRAME; MONITOR; STATION; TERMINAL; STATION

Derwent Class: W01

International Patent Class (Main): **H04L-012/42**

International Patent Class (Additional): **H04L-012/24 ; H04L-012/26**

File Segment: EPI

Manual Codes (EPI/S-X): W01-A06A2; W01-A06B2; W01-A06E2A

**38/9/9 (Item 9 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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011783019 \*\*Image available\*\*

WPI Acc No: 1998-199929/199818

XPX Acc No: N98-158980

**Vehicular data transmission system - uses memory unit of first transfer node to store data indicating connection state of each node with data bus based on response message received on each node**

Patent Assignee: YAZAKI CORP (YAZA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10051475	A	19980220	JP 96199088	A	19960729	199818 B

Priority Applications (No Type Date): JP 96199088 A 19960729

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 10051475	A		8 H04L-012/40	

Abstract (Basic): JP 10051475 A

The system includes a data bus (3) into which several nodes (1a,1b,1c) are connected so that transmission rights can be awarded to any of the nodes at any given time. Each node has a corresponding transfer tip setting unit (23a-23c) that sets up a transfer node to receive transmission rights. The message corresponding to the transfer of transmission rights is forwarded by the corresponding transceiver (21a-21c) to the transfer node set up by any of the setting units.

Each node is likewise provided with the corresponding detectors (28a-28c) that detect the response message coming from the transfer node which received the transfer **message** . If **no response message** is detected within a predetermined interval, the setting unit sets up another transfer node to receive the transfer message. Based on the response message received from each node, the data indicating the connection state of each transfer node with the data bus are stored into the memory unit (25a) of the first node (1a).

ADVANTAGE - Connection state of each node with data bus is manageable.

**Disconnected** node can be detected since memory unit stores address of transfer node from which response message was not received.

Dwg.1/6

Title Terms: VEHICLE; DATA; TRANSMISSION; SYSTEM; MEMORY; UNIT; FIRST; TRANSFER; NODE; STORAGE; DATA; INDICATE; CONNECT; STATE; NODE; DATA; BUS; BASED; RESPOND; MESSAGE; RECEIVE; NODE

Derwent Class: Q17; W01; W05; X22

International Patent Class (Main): **H04L-012/40**

International Patent Class (Additional): B60R-016/02; H04Q-009/00

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): W01-A03A3; W01-A06B1; W01-A06B5A; W05-D02; W05-D03E; W05-D07D; X22-X

**38/9/12 (Item 12 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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010348875    \*\*Image available\*\*

WPI Acc No: 1995-250189/199533

XRPX Acc No: N95-193987

**ISDN terminal adaptor - has D channel protocol processor to receive connect/disconnect demands w.r.t. connection with packet or line switching circuit**

Patent Assignee: NEC CORP (NIDE )

Inventor: MATSUKAWA Y

Number of Countries: 002    Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7154426	A	19950616	JP 93329694	A	19931201	199533    B
US 5598411	A	19970128	US 94350999	A	19941129	199710

Priority Applications (No Type Date): JP 93329694 A 19931201

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 7154426	A	7	H04L-012/64	
US 5598411	A	15	H04J-003/24	

Abstract (Basic): JP 7154426 A

The terminal adapter (1) starts a timer (1) when it starts performing packet switching. The timer measures data delay time and response time. According to the measured time, switching packet between packet switching and line switching mode is performed. A switching demand is passed to the speed adjuster (16).

The switching exchange demand is first output to a protocol change processor (12). From the change processor, demand for **disconnection** of the packet switching circuit and connection to the line switching circuit is provided to a D channel protocol processor (15).

ADVANTAGE - Inhibits accidental switch change. Reduces switching time. Effects automatic change in data switching mode.

Dwg.1/4

Abstract (Equivalent): US 5598411 A

An integrated service digital network (ISDN) terminal adapter for connecting a terminal and an ISDN, comprising:

packet switching means, operatively connected to said terminal and said ISDN, for establishing data communication by packet switching;

circuit switching means, operatively connected to said terminal and said ISDN, for establishing data communication by circuit switching;

selecting means, operatively connected to said packet switching means and said circuit switching means, for selecting one of said packet switching means and said circuit switching means;

first timer means, operatively connected to said packet switching means for counting a first time period during which **no response** is received when said **packet** switching means establishes said data communication by packet switching, said first timer means controlling said selecting means to select said circuit switching means when the first time period exceeds a first value; and

second timer means, operatively connected to said packet switching means and said selecting means, for counting a second time period from a first time corresponding to transmitting a data packet to a second time corresponding to receiving an acknowledgment of receipt of the data packet after said packet switching means establishes said data communication by packet switching, said second timer means controlling said selecting means to select said circuit switching means when the second time period exceeds a second value.

Dwg.1/9

Title Terms: ISDN; TERMINAL; ADAPT; CHANNEL; PROTOCOL; PROCESSOR; RECEIVE; CONNECT; **DISCONNECT** ; DEMAND; CONNECT; PACKET; LINE; SWITCH; CIRCUIT

Derwent Class: W01

International Patent Class (Main): H04J-003/24; **H04L-012/64**

International Patent Class (Additional): **H04L-012/02** ; H04M-011/00

File Segment: EPI

Manual Codes (EPI/S-X): W01-A03B; W01-A06G1; W01-A06G2; W01-B02; W01-C01L; W01-C05B7A

?t38/9/14,16

38/9/14 (Item 14 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07543760 \*\*Image available\*\*

MEDIA CONVERTER WITH TEST MANAGER, FAULT DETECTION METHOD, AND SYSTEM USING THE CONVERTER AND METHOD

PUB. NO.: 2003-037600 [JP 2003037600 A]  
PUBLISHED: February 07, 2003 (20030207)  
INVENTOR(s): TANAKA KAZUYASU  
APPLICANT(s): ALLIED TERESHISU KK  
APPL. NO.: 2001-225960 [JP 2001225960]  
FILED: July 26, 2001 (20010726)  
INTL CLASS: H04L-012/28 ; G06F-013/00; H04L-012/44

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a fault detection system and method which makes it easy to detect faults in the link with a media converter and can identify the location of the fault.

SOLUTION: When a link includes plural media converters which connect a 100BASE-TX: UTP cable and a 100BASE-FX: optical cable and a test manager detects link **disconnection**, a test mode is activated and a trigger packet is sent to the plural media converter from a media converter with the test manager. It is judged whether or **not** a **response packet** from each media converter is received within a certain period of time and a fault location is identified based on the response packet.

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38/9/16 (Item 16 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06841680 \*\*Image available\*\*

METHOD AND DEVICE FOR SESSION INFORMATION MANAGEMENT

PUB. NO.: 2001-069175 [JP 2001069175 A]  
PUBLISHED: March 16, 2001 (20010316)  
INVENTOR(s): TAKAHASHI TATSUO  
TAKESHITA ATSUSHI  
SEKIGUCHI KATSUMI  
APPLICANT(s): NTT DOCOMO INC  
APPL. NO.: 11-242013 [JP 99242013]  
FILED: August 27, 1999 (19990827)  
INTL CLASS: H04L-012/66 ; G06F-013/00; H04L-012/56

#### ABSTRACT

PROBLEM TO BE SOLVED: To prevent resources for session information from being used up at a low cost while securing a stable communication by providing a **session** information **deletion** stage, etc., which **deletes session** information corresponding to state confirmation when an answer showing that a connection state is normal is not obtained.

SOLUTION: When there is **no answer** to a state confirmation **message**, a session control part 115 decides that a mobile terminal to which an IP address whose state has been confirmed is assigned is **disconnected** from a packet gateway and the old session corresponding to the IP address is dead. Then the session control part 115 selects a candidate **session** to be **deleted** from **session** information stored in a session information storage part 116. A 'dead session' is possibly included in the stored **session** information and **deleted** to **eliminate** the exhaustion of **session** resources.

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?t38/9/18-19

38/9/18 (Item 18 from file: 347)  
DIALOG(R)File 347:JAPIO  
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02386461 \*\*Image available\*\*  
INTER-COMPUTER MONITORING METHOD

PUB. NO.: 63-003361 [JP 63003361 A]  
PUBLISHED: January 08, 1988 (19880108)  
INVENTOR(s): UNOTSU TOSHIHARU  
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP  
(Japan)  
HITACHI ENG CO LTD [323361] (A Japanese Company or Corporation),  
JP (Japan)  
APPL. NO.: 61-144880 [JP 86144880]  
FILED: June 23, 1986 (19860623)  
INTL CLASS: [4] G06F-015/16 ; G06F-011/30  
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications); 45.1  
(INFORMATION PROCESSING -- Arithmetic Sequence Units)  
JOURNAL: Section: P, Section No. 715, Vol. 12, No. 203, Pg. 9, June 11,  
1988 (19880611)

#### ABSTRACT

PURPOSE: To prevent the influence of abnormality of a certain computer from effecting to other ones by separating immediately the abnormal computer after the detection of the abnormality.

CONSTITUTION: The timer device 17 of a computer 10 starts a monitor transmission device 11 in a fixed cycle. Thus the device 11 transmits a state monitor message to a computer 20 via a communication controller 16. The computer 10 cuts off the communication channel between both computers 10 and 20 when no answer message is received from the computer 20 even when a fixed time is lapsed. Furthermore a fact that the computer 20 has the abnormality is informed to a computer 30 that transfers a message to the computer 20. At the time of receiving said information on the abnormality of the computer 20, the computer 30 immediately interrupts the communication channel set between both computers 20 and 30. Thus it is possible to prevent the influence of abnormality of the computer 20 from effecting to the computer 30 in advance.

38/9/19 (Item 19 from file: 347)  
DIALOG(R)File 347:JAPIO  
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00809156 \*\*Image available\*\*  
PATH CONTROL METHOD

PUB. NO.: 56-129456 [JP 56129456 A]  
PUBLISHED: October 09, 1981 (19811009)  
INVENTOR(s): OGURA TOSHIHIKO  
TAKAHASHI MASAHIRO  
KAWABATA MASA HARU  
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP  
(Japan)  
HITACHI ENG CO LTD [323361] (A Japanese Company or Corporation),  
JP (Japan)  
APPL. NO.: 55-031600 [JP 8031600]  
FILED: March 14, 1980 (19800314)  
INTL CLASS: [3] H04L-011/20  
JAPIO CLASS: 44.3 (COMMUNICATION -- Telegraphy); 44.2 (COMMUNICATION --  
Transmission Systems); 45.1 (INFORMATION PROCESSING --  
Arithmetic Sequence Units)  
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers &  
Microprocessors)  
JOURNAL: Section: E, Section No. 89, Vol. 06, No. 6, Pg. 147, January 14,  
1982 (19820114)

# ABSTRACT

PURPOSE: To avoid a failure to effect on another line, by detecting the production of failure by receiving **no response** to transmission information after the production of failure and changing the path table corresponding from the transmitted address.

CONSTITUTION: In a relay station making packet exchange of network having a plurality of paths to one terminal station, if failure production is detected, the failed line is read in. It is judged that the failure is for input/output circuit. If failure for the input/output circuit, the failed line is detached from the common bus. If the said failure is not a cause, the information transmission terminal (MC) is read in, the minimum path of path **table** corresponding to MC is **canceled** and the spare **path** is changed to the shortest path. Thus, the effect of failure can be minimized independently of the network constitution.

?

43/9/7 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013869526 \*\*Image available\*\*  
WPI Acc No: 2001-353738/200137  
XRPX Acc No: N01-256882

**Secondary station activity status monitoring method in digital communication system, involves initiating deassociation of mobile terminal whose non - response invitations reaches predetermined value**

Patent Assignee: BAUCHOT F (BAUC-I); MARMIGERE G (MARM-I)

Inventor: BAUCHOT F; MARMIGERE G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6229807	B1	20010508	US 9818587	A	19980204	200137 B

Priority Applications (No Type Date): US 9818587 A 19980204

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6229807	B1	6	H04L-012/28	

Abstract (Basic): US 6229807 B1

NOVELTY - An access point (AP) transmits an invitation to associated mobile terminal (MT) to send back a message I am alive, when AP does not receive any data from MT. The MT is deassociated when **non - response** invitation transmitted to the MT reaches preset value. A new invitation is transmitted when the number of invitations is divisible by a factor which is selected based on mobile terminal's fading conditions.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for digital communication system.

USE - In digital communication system.

ADVANTAGE - Provides a process of monitoring activity status of each secondary station which enables to discover whether a station has to be **disconnected** in a minimum of time although the resulting overhead remains limited.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of process of deassociating **non - response** mobile terminal.

pp; 6 DwgNo 1, 2/2

Title Terms: SECONDARY; STATION; ACTIVE; STATUS; MONITOR; METHOD; DIGITAL; COMMUNICATE; SYSTEM; INITIATE; MOBILE; TERMINAL; NON; RESPOND; REACH; PREDETERMINED; VALUE

Derwent Class: W01; W02; W05

International Patent Class (Main): H04L-012/28

International Patent Class (Additional): H04L-012/56

File Segment: EPI

Manual Codes (EPI/S-X): W01-A03B ; W01-A06A; W01-A06G2 ; W01-B05A1A; W02-K03 ; W05-D02

43/9/8 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011830751 \*\*Image available\*\*  
WPI Acc No: 1998-247661/199822  
XRPX Acc No: N98-196351

**Distributed control apparatus for data distribution exchange system - sets and displays second frame abnormal flag and transmission companion station command to first usual station, respectively, to enable other usual stations to recognise first usual station abnormality**

Patent Assignee: HITACHI LTD (HITA )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10079746	A	19980324	JP 96235127	A	19960905	199822 B
JP 3518957	B2	20040412	JP 96235127	A	19960905	200425

Priority Applications (No Type Date): JP 96235127 A 19960905

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 10079746	A		21	H04L-012/28	
JP 3518957	B2		21	H04L-012/28	Previous Publ. patent JP 10079746

Abstract (Basic): JP 10079746 A

The apparatus uses a first transmission frame (49) to confirm whether each usual station (2-4) is in a normal or abnormal state. The first frame is forwarded by an administration station (1) to the usual stations at a constant interval.

When the first usual station did **not respond** to the administration station, a first frame abnormal flag (45) is set to the first usual station and a transmission companion station command (46) is shown in the first usual station while a second transmission frame (50) is sent to the other usual stations. The other usual stations recognise the abnormality of the first usual station from a second frame abnormal flag and the command, and the first usual station is **disconnected** from a network.

USE - For controlling data transmission between administration station and several usual stations.

ADVANTAGE - Performs distribution of other usual stations with high priority level during abnormal state and distribution of low priority level during normal state, with inexpensive structure.

Dwg.1/12

Title Terms: DISTRIBUTE; CONTROL; APPARATUS; DATA; DISTRIBUTE; EXCHANGE; SYSTEM; SET; DISPLAY; SECOND; FRAME; ABNORMAL; FLAG; TRANSMISSION; COMPANION ; STATION; COMMAND; FIRST; USUAL; STATION; RESPECTIVE; ENABLE; USUAL; STATION; RECOGNISE; FIRST; USUAL; STATION; ABNORMAL

Derwent Class: W01

International Patent Class (Main): H04L-012/28

International Patent Class (Additional): G06F-013/00; H04L-012/40

File Segment: EPI

Manual Codes (EPI/S-X): W01-A03B ; W01-A06B1; W01-A06F; W01-A06G2

43/9/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011246115 \*\*Image available\*\*

WPI Acc No: 1997-224018/199720

XRFX Acc No: N97-185450

**Monitoring apparatus for communication circuit using infrared communication**  
**- includes infrared communication controller that transmits network**  
**communication data to other terminals**

Patent Assignee: CANON KK (CANO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9069850	A	19970311	JP 95248840	A	19950901	199720 B

Priority Applications (No Type Date): JP 95248840 A 19950901

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9069850	A		5	H04L-012/40	

Abstract (Basic): JP 9069850 A

The apparatus includes an operating circuit (10) that performs an input command which is converted to a control signal (8) being carried by a bus. A communication data on a network is transmitted to the other terminals using an infrared communication controller (7) which monitors the circuit of the network.

When the other terminals respond, the data carried by the bus is transmitted to the communication controller. The data is then displayed on a screen. When the other terminals do **not respond**, the circuit will be **disconnected**.

USE/ADVANTAGE - For e.g. LAN print server. Offers easy terminal communication data monitoring.

Dwg.1/9

Title Terms: MONITOR; APPARATUS; COMMUNICATE; CIRCUIT; INFRARED; COMMUNICATE;  
INFRARED; COMMUNICATE; CONTROL; TRANSMIT; NETWORK; COMMUNICATE; DATA;  
TERMINAL

Derwent Class: W01

International Patent Class (Main): H04L-012/40

International Patent Class (Additional): H04B-010/08; H04B-010/20; H04L-012/24  
; H04L-012/26; H04L-029/14

File Segment: EPI

Manual Codes (EPI/S-X): W01-A06B1; W01-A06C4; W01-A06E1

43/9/12 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010845527 \*\*Image available\*\*

WPI Acc No: 1996-342480/199634

XRPX Acc No: N96-288218

**Data transmission system for packet data network - uses transmission of data  
packet blocks with re-transmission of missing packets in each block before  
transmission of next block**

Patent Assignee: NICOM GES KOMMUNIKATIONSSYSTEME MBH (NICO-N)

Inventor: KRZESLOWSKI W; NICKOL H

Number of Countries: 018 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9621979	A1	19960718	WO 96EP35	A	19960106	199634 B
DE 19500446	A1	19960718	DE 1000446	A	19950110	199634

Priority Applications (No Type Date): DE 1000446 A 19950110

Cited Patents: EP 186343; EP 46831; US 5245616

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9621979	A1	G	36	H04L-001/16	
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Designated States (National): CA US

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT  
SE

DE 19500446	A1	14	H04L-001/16	
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Abstract (Basic): WO 9621979 A

The data transmission system has the data divided at the transmitter into transmission blocks containing a given number of data packets, with initial transmission of the number and size of the transmission blocks and subsequent transmission of the blocks.

The receiver transmits a reply to the transmitter indicating the number of received packets, after reception of each packet block, for re-transmission of any missing packets before transmission of the next packet block. The connection is **disconnected** if **no reply** is received from the receiver within a defined time interval.

ADVANTAGE - Ensures reliable data transmission.

Dwg.1a/4

Title Terms: DATA; TRANSMISSION; SYSTEM; PACKET; DATA; NETWORK; TRANSMISSION;  
DATA; PACKET; BLOCK; TRANSMISSION; MISS; PACKET; BLOCK; TRANSMISSION; BLOCK

Derwent Class: W01

International Patent Class (Main): H04L-001/16

International Patent Class (Additional): H04L-012/56

File Segment: EPI

Manual Codes (EPI/S-X): W01-A01A; W01-A03B ; W01-A06G2

43/9/15 (Item 15 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010362728 \*\*Image available\*\*

WPI Acc No: 1995-264042/199534

XRPX Acc No: N95-202976

Monitoring operations of subscriber unit in telecommunications - activates alarm if no acknowledgement of message is received after several retransmission attempts

Patent Assignee: NOKIA TELECOM OY (OYNO )  
Inventor: LIINAMAA O; RUSI P; SARPOLA J; TIIHONEN A  
Number of Countries: 060 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9519686	A1	19950720	WO 95FI11	A	19950113	199534 B
FI 9400195	A	19950715	FI 94195	A	19940114	199540
AU 9514179	A	19950801	AU 9514179	A	19950113	199546
FI 97669	B	19961015	FI 94195	A	19940114	199646
EP 739576	A1	19961030	EP 95905652	A	19950113	199648
			WO 95FI11	A	19950113	
JP 9507625	W	19970729	JP 95518859	A	19950113	199740
			WO 95FI11	A	19950113	
AU 680990	B	19970814	AU 9514179	A	19950113	199741
CN 1138935	A	19961225	CN 95191224	A	19950113	199806
US 5898921	A	19990427	WO 95FI11	A	19950113	199924
			US 96669486	A	19960711	

Priority Applications (No Type Date): FI 94195 A 19940114

Cited Patents: EP 344624; GB 2087690

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9519686 A1 E 11 H04Q-007/34  
Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA US UZ VN  
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ

AU 9514179 A H04Q-007/34 Based on patent WO 9519686  
FI 97669 B H04Q-007/20 Previous Publ. patent FI 9400195  
EP 739576 A1 E 11 H04Q-007/34 Based on patent WO 9519686  
Designated States (Regional): AT BE DE FR GB IT NL SE  
JP 9507625 W 12 H04Q-007/34 Based on patent WO 9519686  
AU 680990 B H04Q-007/34 Previous Publ. patent AU 9514179  
Based on patent WO 9519686  
US 5898921 A H04B-017/00 Based on patent WO 9519686  
FI 9400195 A H04Q-007/20  
CN 1138935 A H04Q-007/34

Abstract (Basic): WO 9519686 A

The method of monitoring the operations of a subscriber unit (1) involves transmitting a call reserved in signalling for some other purpose to a subscriber unit. The call is selected to be one to which the unit responds automatically.

A message from the unit concerning receipt of the call is awaited. If the message is not received, then the call is repeated, until the unit has left given number of calls **unanswered**. After the given number of **unanswered** calls is reached, an alarm is sounded. Pref., when a message indicating that the call has been received arrives, the **connection** is **released**. The subscriber unit then forwards the call to the user of the unit.

USE/ADVANTAGE - For wireless local loop, telefax or computer and modem combination. Detects malfunctions promptly, thereby reducing interference with signals.

Dwg.1/2

Title Terms: MONITOR; OPERATE; SUBSCRIBER; UNIT; TELECOMMUNICATION; ACTIVATE; ALARM; NO; ACKNOWLEDGE; MESSAGE; RECEIVE; AFTER; RETRANSMISSION; ATTEMPT

Derwent Class: W01

International Patent Class (Main): H04B-017/00; H04Q-007/20; H04Q-007/34

International Patent Class (Additional): H04M-003/30

File Segment: EPI

Manual Codes (EPI/S-X): W01-B05A1; W01-C02A5; W01-C05B1C; W01-C05B3A

43/9/27 (Item 27 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07967423 \*\*Image available\*\*  
COMMUNICATION APPARATUS CAPABLE OF AUTOMATIC DISCONNECTION

PUB. NO.: 2004-080182 [JP 2004080182 A]  
PUBLISHED: March 11, 2004 (20040311)  
INVENTOR(s): KUWABARA TOMOAKI  
AKIYOSHI KOJI  
APPLICANT(s): SEIKO EPSON CORP  
APPL. NO.: 2002-235509 [JP 2002235509]  
FILED: August 13, 2002 (20020813)  
INTL CLASS: H04L-029/08

ABSTRACT

PROBLEM TO BE SOLVED: To realize a technology for making an automatic **disconnection** while keeping a communication efficiency.

SOLUTION: A personal computer 14 acquires a printing job from a print intervening server 13 over a network INT connected by dial up. The computer 14 executes the time up automatic **disconnection** of a communication connection but is checked from **disconnection**, unless checking the job by automatic connection. It is also checked from **disconnection**, while the server 13 keeps the job held or a printer PT is executing the printing job, or if there is an **unanswered request**, etc. Such checking enables the automatic **disconnection** while keeping a communication efficiency.

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43/9/34 (Item 34 from file: 347)  
DIALOG(R)File 347:JAPIO  
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04045734 \*\*Image available\*\*  
COMMUNICATION METHOD USING DIGITAL RADIO NETWORK

PUB. NO.: 05-037434 [JP 5037434 A]  
PUBLISHED: February 12, 1993 (19930212)  
INVENTOR(s): YAMADA KAZUHIRO  
KAWAGUCHI SHIGERU  
SUGIMOTO ICHIRO  
YAMADA MITSUTOSHI  
KANDA JUN  
APPLICANT(s): OSAKA GAS CO LTD [000028] (A Japanese Company or Corporation), JP (Japan)  
MATSUSHITA ELECTRIC IND CO LTD [000582] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 03-189007 [JP 91189007]  
FILED: July 29, 1991 (19910729)  
INTL CLASS: [5] H04B-007/24; H04M-011/00  
JAPIO CLASS: 44.2 (COMMUNICATION -- Transmission Systems); 44.4 (COMMUNICATION -- Telephone)  
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessors)  
JOURNAL: Section: E, Section No. 1385, Vol. 17, No. 328, Pg. 124, June

22, 1993 (19930622)

ABSTRACT

PURPOSE: To execute communication through a digital radio network to an opposite side station without fail when abnormality is detected at its own station.

CONSTITUTION: When the abnormality is generated (a2) at its own station, a session is established (a3-a5) by requesting connection through the digital radio network, data are transmitted/received (a6 and a7) and the session is opened (a8-a10) by **requesting disconnection**. When there is **no response** (a4, a7 and a9) in the respective processes and the fault is announced from the digital radio network being a communication network, reconnection is requested (a3) after waiting (a12, a14 and a16) for time decided in advance.

43/9/42 (Item 42 from file: 347)

DIALOG(R)File 347:JAPIO

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02940634 \*\*Image available\*\*

LINE BACK UP SYSTEM

PUB. NO.: 01-238234 [JP 1238234 A]

PUBLISHED: September 22, 1989 (19890922)

INVENTOR(s): MIYAJIMA SEITARO

APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 63-063289 [JP 8863289]

FILED: March 18, 1988 (19880318)

INTL CLASS: [4] H04B-001/74; G06F-011/20; H04M-011/00

JAPIO CLASS: 44.2 (COMMUNICATION -- Transmission Systems); 44.4 (COMMUNICATION -- Telephone); 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)

JOURNAL: Section: E, Section No. 862, Vol. 13, No. 571, Pg. 41, December 18, 1989 (19891218)

ABSTRACT

PURPOSE: To prevent the trouble of a part except a host from becoming the breakdown of all terminals by using an integrated digital service network(ISDN) and a preliminary DP between the host and a decentralized processor(DP) as a back up circuit.

CONSTITUTION: A buffer circuit connected to a back up adapter BA4 is disposed between the host 1 and the DVs 7, 8 by the use of the preliminary DP 3, ISDN 5 of a buffer. At the time of the trouble of the line 21, the message path of the DVs 7, 8 is formed by the ISDN 5 and the DP 2 and when the trouble of the DP 2 is decided according to a **non response**, a similar **message** path is formed by a BA 4 in which a switch 16 is **disconnected** through the DP3, the ISDN 5 and them. Thereby, the breakdown of all terminals is avoided to a single trouble except the time of the trouble of the host.

43/9/46 (Item 46 from file: 347)

DIALOG(R)File 347:JAPIO

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01832549 \*\*Image available\*\*

TIME DIVISION MULTIPLEX LOOP TRANSMISSION SYSTEM

PUB. NO.: 61-046649 [JP 61046649 A]  
PUBLISHED: March 06, 1986 (19860306)  
INVENTOR(s): SAMEJIMA MASAhide  
APPLICANT(s): SHOWA ELECTRIC WIRE & CABLE CO LTD [000225] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 59-168400 [JP 84168400]  
FILED: August 11, 1984 (19840811)  
INTL CLASS: [4] H04L-011/00; H04Q-011/04  
JAPIO CLASS: 44.3 (COMMUNICATION -- Telegraphy); 44.4 (COMMUNICATION -- Telephone)  
JOURNAL: Section: E, Section No. 420, Vol. 10, No. 205, Pg. 86, July 17, 1986 (19860717)

#### ABSTRACT

PURPOSE: To allocate lots of terminal devices without increasing the number of transmission slots of a frame and to transmit a data efficiently by using in common each data transmission slot for data transmission among plural terminal devices in exchange connection.

CONSTITUTION: A loop transmission line 1 is provided with plural nodes N, and lots of data terminal devices T and voice terminal devices TEL are accommodated to each node N. In applying exchange connection for the data terminal devices T, a preparation of call is requested from the terminal device T to the node N accommodating it. A sender node NS transmits an address of the terminal device T and a transmission request signal to a header of the transmission line 1 and awaits a response from the reception side. A reception side node ND stores a sender side node number, an address of the sender side terminal device T and an address of the terminal device T accommodated by itself and transmits a ready signal representing that the terminal device is receivable when the terminal T of the reception side is idle. When the response to the transmission request given from the node NS is received, the sender node NS informs the end of connection to the terminal device T.

43/9/48 (Item 48 from file: 347)

DIALOG(R)File 347:JAPIO

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00431396

FIRE ALARMING SYSTEM

PUB. NO.: 54-083396 [JP 54083396 A]  
PUBLISHED: July 03, 1979 (19790703)  
INVENTOR(s): ARAI YASUHIKO  
UKIANA KOJI  
FURUYA MASAHIKA  
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD [000582] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 52-151261 [JP 77151261]  
FILED: December 15, 1977 (19771215)  
INTL CLASS: [2] G08B-017/00; G08B-025/00; G08B-026/00  
JAPIO CLASS: 44.9 (COMMUNICATION -- Other)  
JOURNAL: Section: E, Section No. 135, Vol. 03, No. 106, Pg. 86, September 07, 1979 (19790907)

#### ABSTRACT

PURPOSE: To realize a highly reliable fire alarming system by carrying out the decision for the circuit disconnection area as well as for the faulty detector bt the presence or absence of the address return after switching

of the transmission route.

CONSTITUTION: Fire detectors  $SS(\text{sub } 11) - SS(\text{sub } nm)$  contain the digital transmission control function with which the own address is returned to the address polling sent from repeaters  $R(\text{sub } 1) - R(\text{sub } n)$  only when the address polling is in agreement with the own address, only the next address polling can be received when no agreement is obtained to wait and **no answer** can be given for the communication with other detectors and repeaters. In addition to such fire detectors, the following units form the fire alarming system: loop-type digital transmission circuits  $11(\text{sub } 1) - 11(\text{sub } n)$  which connect the repeater and detectors  $SS(\text{sub } 11) - SS(\text{sub } nm)$ ; and repeaters  $R(\text{sub } 1) - R(\text{sub } n)$  which contain the switching function and the transmission control function to switch the both ends of the digital **transmission** circuit. Thus, in case **no answer** is given to the address polling, the transmission route is switched to repeat the address polling. And the decision is given to the circuit **disconnection** area as well as to the faulty detector by the presence or absence of the address return after switching of the transmission route. Thus, a highly reliable fire alarming system can be obtained.